


# Tutorial Optimalisasi Android

Agan-agan, sebelum lanjut ke halaman berikutnya,

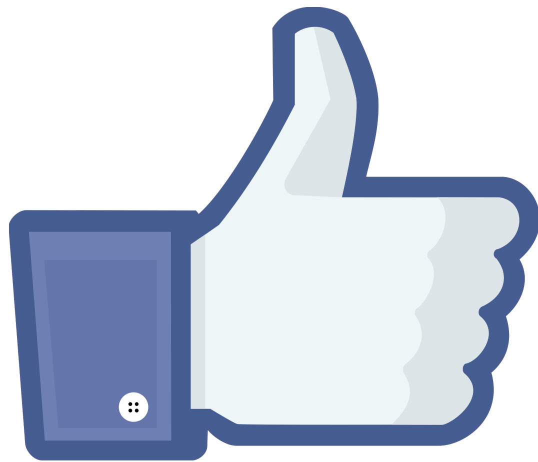
# STOP

dulu. Tutorial ini puanjang gan, 100 halaman lebih!

Kalo agan belum sempat, simpan saja dulu, kapan-kapan dilanjutkan.

Tapi kalo sekarang agan lagi santai dan pengen nambah pengetahuan baru, ayo, mari lanjut baca.

Gimana?



Mantap, agan pilih untuk **melanjutkan**.

Mari kita mulai.

# TEORI

# P E N D A H U L U A N

Kata “optimalisasi” sebenarnya ga ada di kamus. Yang benar adalah “pengoptimalan”, yang artinya adalah proses, cara, perbuatan mengoptimalkan (menjadikan paling baik, paling tinggi, dsb). [1]

Demikian kurang lebih tujuan tutorial ini: pengoptimalan; mencoba mencapai keadaan paling baik dari hp Android kita, antara lain:

- ✔ RAM-nya lega
- ✔ Prosesornya adem
- ✔ Baterenya awet

Tutorial optimalisasi android ini bersifat parsial, tidak menyeluruh. Beberapa detail sengaja tidak dicantumkan serta pembahasan dibatasi pada materi utama saja, agar tutorial tetap ringkas.

Sebelum dipublikasikan, **seluruh** materi tutorial ini telah melalui uji coba dengan hasil yang aman dan memuaskan.

Dalam penyusunan tutorial ini, ane gunakan:

- ✔ Handphone IMO S89 Miracle [2]
- ✔ Custom ROM MIUI 4.9.12 XOLO Q700i [3]

**Kenapa IMO S89 Miracle?**

Satu-satunya alasan, ya karena itu yang ane punya, gan.

Ane pikir, IMO S89 adalah hp re-branding yang sukses. Hardware-nya OK (saat dirilis), komunitasnya juga solid.

**Kenapa MIUI?**

Yang utama, karena itu ROM yang ane suka.

MIUI adalah ROM yang populer, dengan 70 juta lebih pengguna. [4]

Sebagai catatan, sebelum pakai MIUI, ane pakai Stock ROM (IMO S89). Hasil optimalisasi tidak jauh beda. Bahkan, RAM yang tersisa lebih lega.

# PENGANTAR TEKNIS

**Ini fakta**: tanpa perlu diotak-atik, sebenarnya hp Android agan sudah berfungsi dengan baik. Dipasang kartu, siap deh.

**Lalu mengapa perlu optimalisasi?**

Untuk menjawabnya, perlu dipaparkan dulu mengenai OS Android yang hidup di hp agan. Dari sana, baru bisa dipahami perlu apa tidaknya optimalisasi.

Untuk itu, mau ga mau kita harus bicara secara teknis, gan. Izinkan ane mencoba menguraikan dengan sederhana.

Kita akan bahas tentang dua hal, **Event** dan **Quit**.

## Mengenal Event

Dalam Android dikenal istilah Event, alias kejadian, seperti:

- ✔ HP dinyalakan (event After Startup)
- ✔ Konek ke jaringan (event Connectivity changed)
- ✔ Aplikasi selesai di-instal (event Application installed)
- ✔ Tanggal diubah (event Date Changed)
- ✔ Charger dicabut (event Power disconnected)
- ✔ MMC terbaca (event Media mounted)

Event ini disediakan oleh Android untuk Pembuat Aplikasi (Developer).

Misalnya, pada aplikasi Skype. Developer-nya ingin agar Skype jalan saat hp dinyalakan atau bila hp konek ke internet. Maka, developer membuat Skype terdaftar di dua Event, yakni saat hp dinyalakan (event After Startup) dan saat konek ke jaringan (event Connectivity changed).

Sebuah aplikasi mendaftarkan dirinya ke event **saat agan meng-instal-nya**.

## Mengenal Quit

Umumnya, berikut ini proses dijalankannya sebuah aplikasi:

1. Pengguna meng-klik (open) aplikasi
2. Android memuat (load) aplikasi ke RAM
3. Pengguna memakai (use) aplikasi sesuai kebutuhan
4. Setelah selesai, pengguna meng-klik Quit (close)
5. Android membersihkan (unload) aplikasi dari RAM

Demikian yang ideal. Selesai urusan, ya sudah, berhenti bekerja dan tinggalkan RAM.

Namun ada beberapa aplikasi yang berjalan terus di RAM.

Yang pertama, aplikasi yang selalu aktif. Misalnya, aplikasi chatting, yang terus menerus berkirim-terima pesan melalui koneksi internet.

Jenis kedua, yang karena beberapa hal, gagal move on dari RAM, padahal tugasnya dah selesai. :)

## Masalah Event dan Quit

Penggunaan Event yang berlebihan dan tidak berfungsinya Quit berpotensi menimbulkan masalah.

Beberapa aplikasi setelah di-instal ternyata mendaftarkan dirinya ke berbagai event yang tidak semestinya. Misal, ada game otomatis jalan saat hp dinyalakan. Bahkan ada aplikasi yang mendaftarkan ke puluhan event. Jadinya, aplikasi itu jalan lagi, jalan lagi. :p

Beberapa aplikasi lainnya setelah di-quit ternyata masih berjalan di RAM. Malah ada yang sengaja tidak menyediakan menu Quit. Pada akhirnya, pengguna hanya mengandalkan tombol Back di hp.

Boleh jadi, developer berasumsi bahwa cara-cara demikian akan mempermudah pengguna. Namun tetap harus diingat, agan sebagai pemilik dan pengguna hp-lah yang paling paham kebutuhan sendiri. Ya, kan?

## Konsekuensi

Sekarang, kita beralih kepada konsekuensi dari penggunaan event berlebihan dan tidak berfungsinya quit tadi.

Semakin banyak aplikasi di RAM, baik karena otomatis dipanggil melalui event atau karena tidak bisa di-quit, maka:

- ✔ semakin banyak RAM terpakai
- ✔ semakin menguras daya Batere
- ✔ semakin naik suhu Prosesor

## Solusi

Usahakan hanya aplikasi yang memang selalu dipakai saja yang tetap berada di RAM. Aplikasi yang lainnya dijalankan manual, hanya bila dibutuhkan.

Sampai di sini, ane harap agan sudah paham latar belakang perlunya optimalisasi.

Jadi, untuk pertanyaan “**Mengapa perlu optimalisasi?**”, maka jawaban paling pas adalah “**Mengapa tidak?**”. :D

Sekarang, waktunya praktik!

# PRAKTIK

Hasil akhir yang diharapkan dari praktik ini adalah

- ✔ Agan paham cara memeriksa event dan aplikasi
- ✔ Agan mampu mengentikan aplikasi yang berjalan
- ✔ Agan mengenal setting terkait daya dan quota

Untuk mencapai target di atas, kita akan melakukan tiga hal berikut:

- ✔ Membersihkan aplikasi dari daftar Event
- ✔ Membersihkan aplikasi bandel dari RAM
- ✔ Mengatur setting MIUI (opsional)

Yuk, kita mulai.

# Membersihkan aplikasi dari daftar Event

Tidak semua aplikasi perlu dibersihkan dari daftar event, sebagian sengaja dibiarkan, misal:

- ✔ Aplikasi inti (core) bawaan dari OS Android, seperti Advanced settings, Messaging, Phone, dll.
- ✔ Aplikasi yang agan perlukan, seperti WhatsApp dan BBM.

Harus diingat, aksi bersih-bersih ini memerlukan **akses root**. Ane anggap agan sudah mengerti apa dan bagaimana berkuasanya root. Hati-hati.

Untuk keperluan bersih-bersih ini, kita akan dibantu oleh sebuah aplikasi pengontrol aplikasi dan event. Aplikasi ini unik dan handal.

Baik, agan-agan, perkenalkan ...






AutoStart Check Demo

Rbrt Productions

INSTALL




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254



Tools



Similar

AutoStart Check helps you keep control over your phone (only for rooted devices)

READ MORE



**AutoStart Check (ASC)**

http://goo.gl/4BChcM

**ASC** adalah aplikasi untuk mengetahui dan mengontrol daftar aplikasi dan event.

Di Play Store tersedia dua versi ASC, gratis dan berbayar. Untuk tutorial ini, kita gunakan yang gratis. Jika suka, silakan nanti agan beli.

Kalo belum punya, donlot dan instal dulu ASC. Ukurannya kecil, sekitar 500 KB.

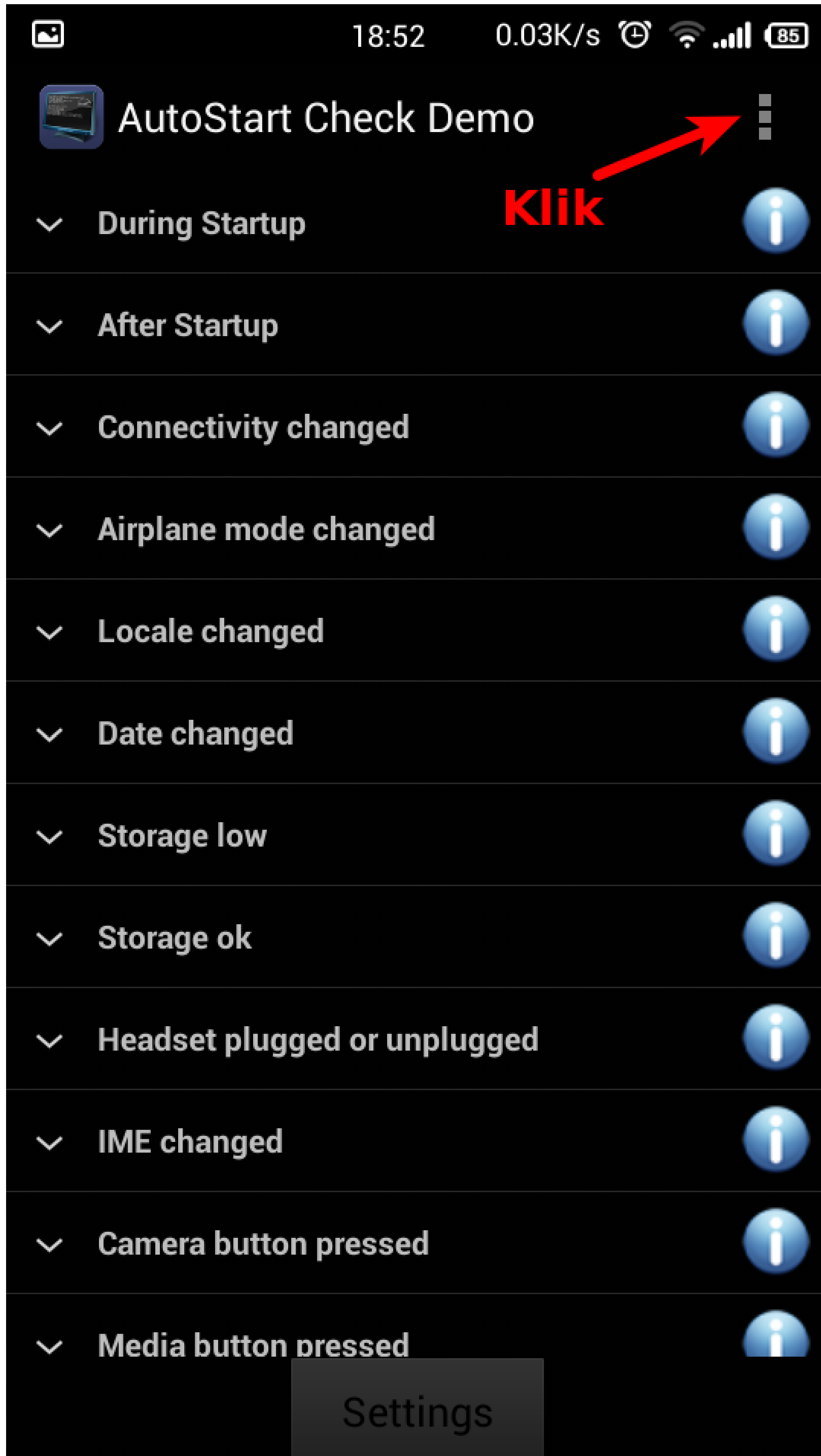
Dibantu dengan gambar panduan, kita akan

✔ mengatur setting awal ASC (gambar 1-3)

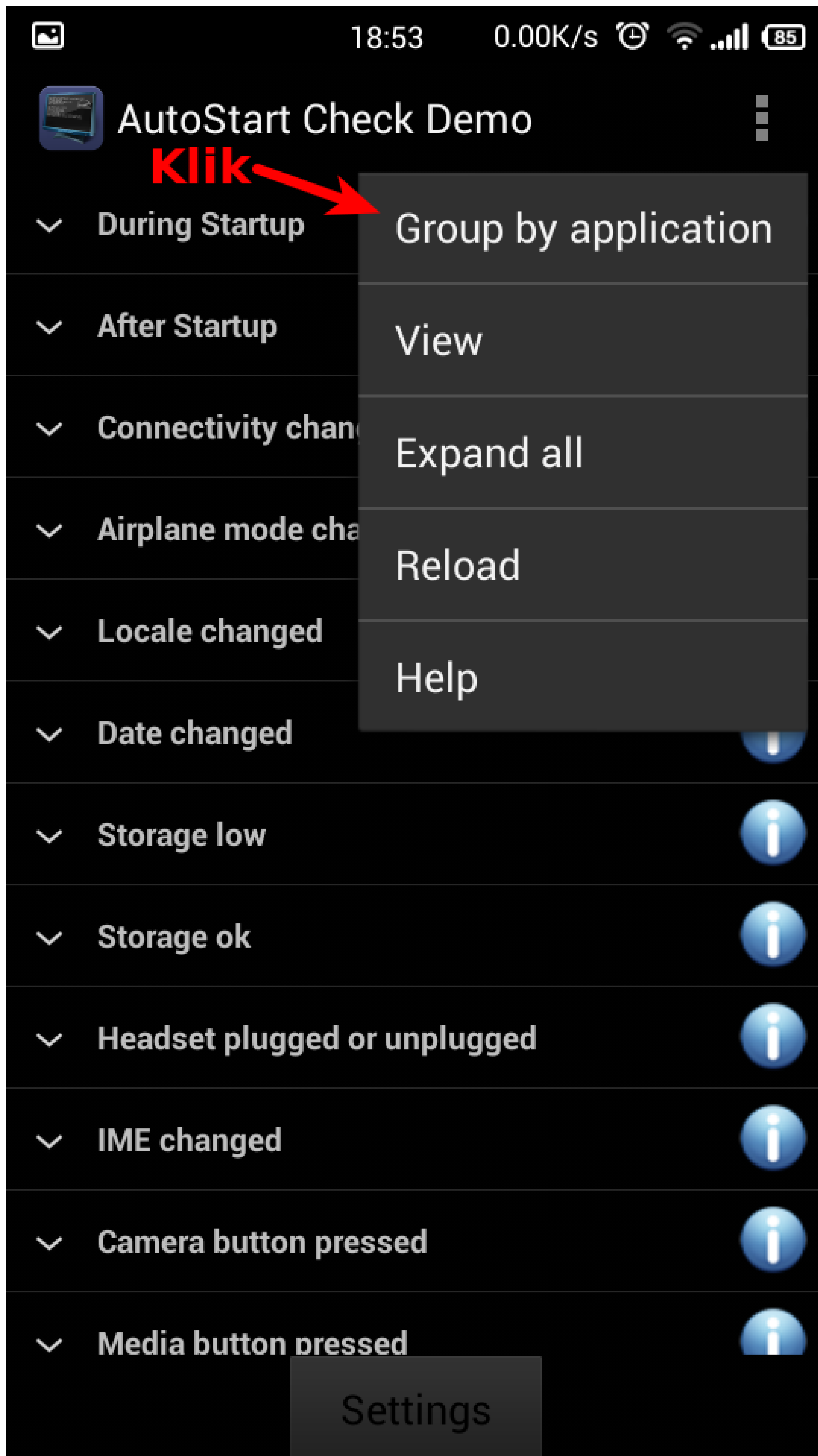
✔ mengatur setting ASC setiap digunakan (gbr. 4-6)

✔ mencoba membersihkan satu aplikasi (gbr. 7-8)

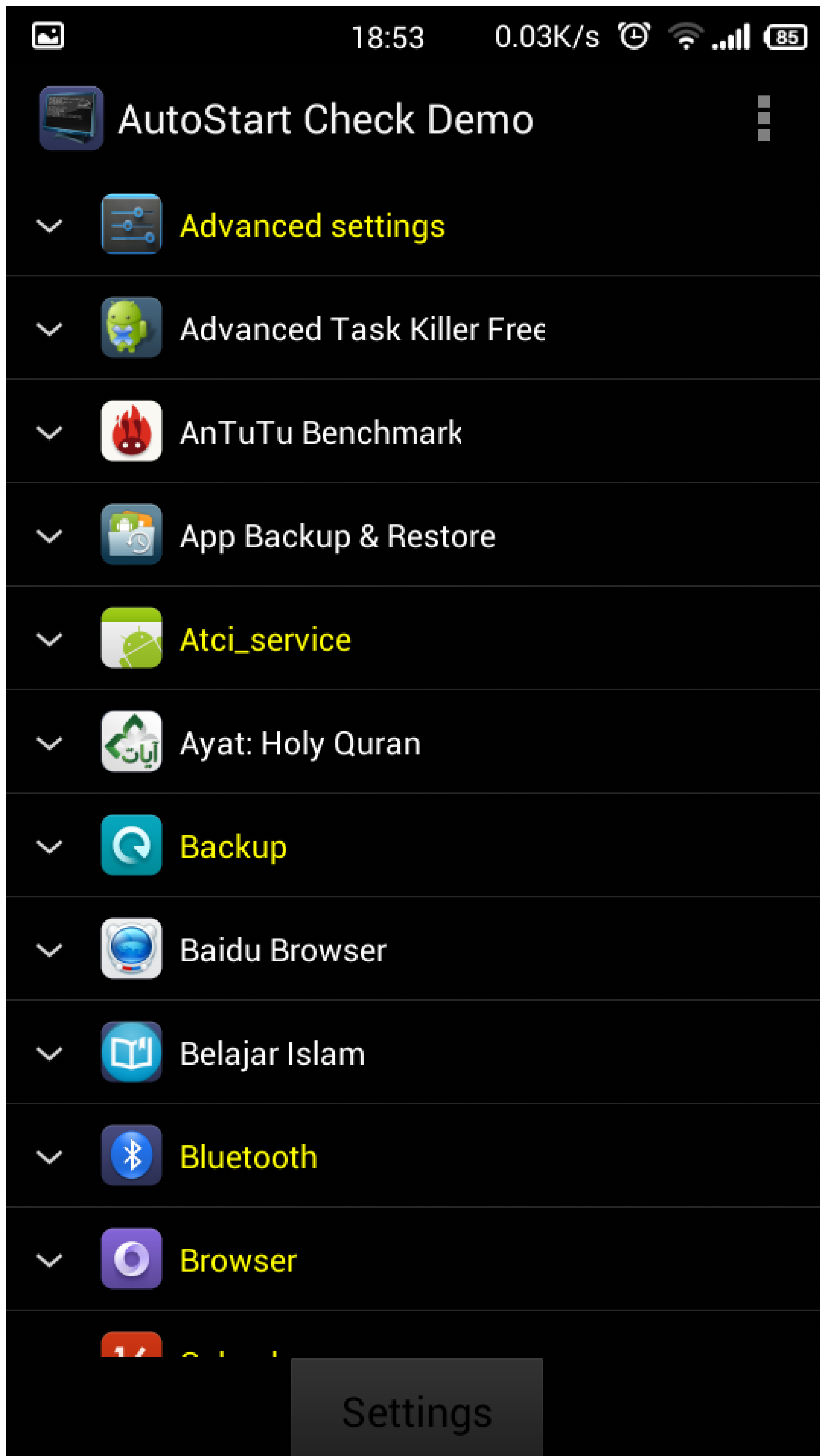
1. Ini adalah tampilan daftar event. Kita akan ubah menjadi tampilan daftar aplikasi. Klik **Menu** di sudut kanan atas.



2. Muncul **Menu**, klik “**Group by application**”.

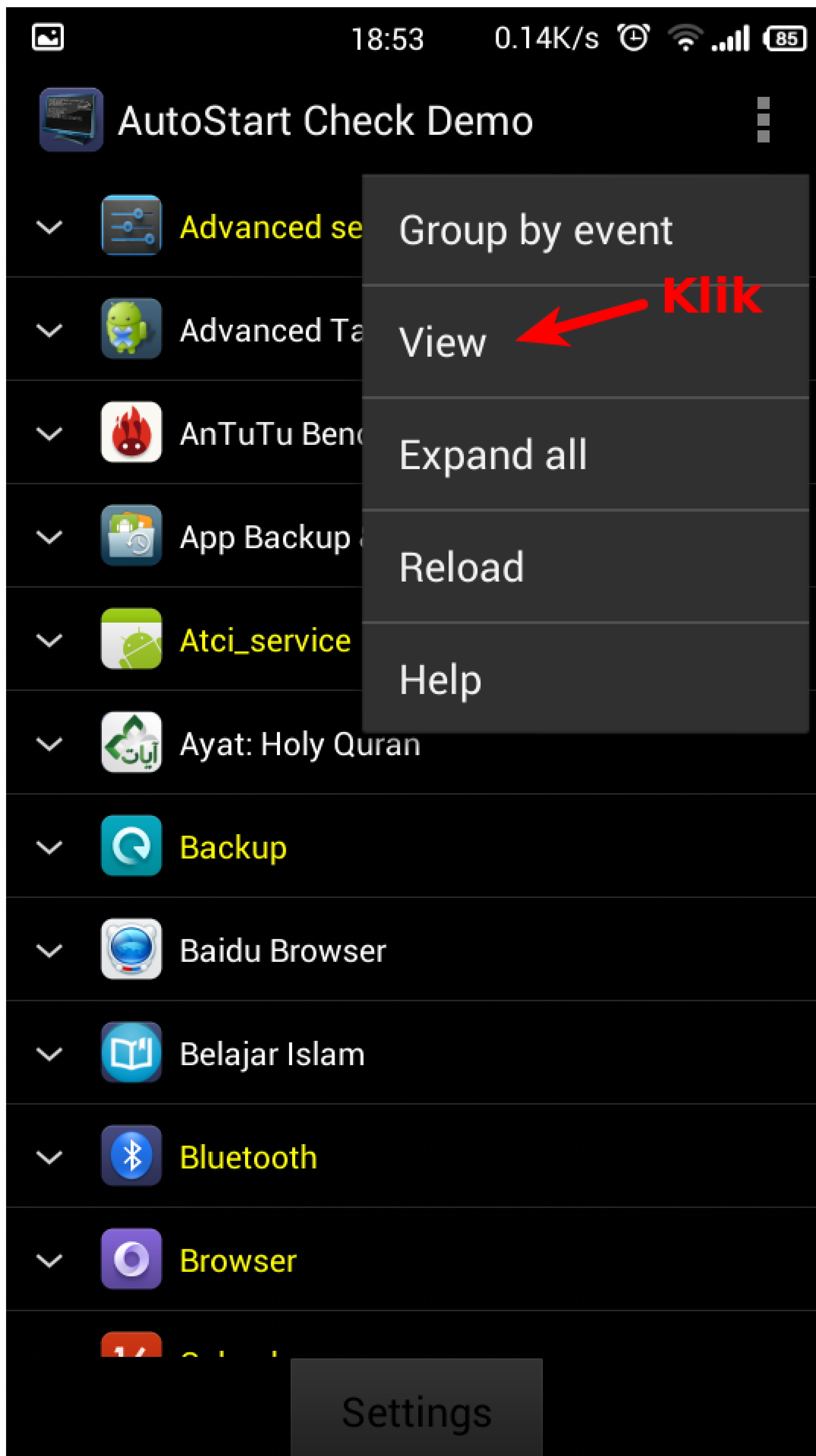


3. Ini hasilnya, tampilan daftar aplikasi. Langkah 1-3 ini cukup sekali dilakukan.

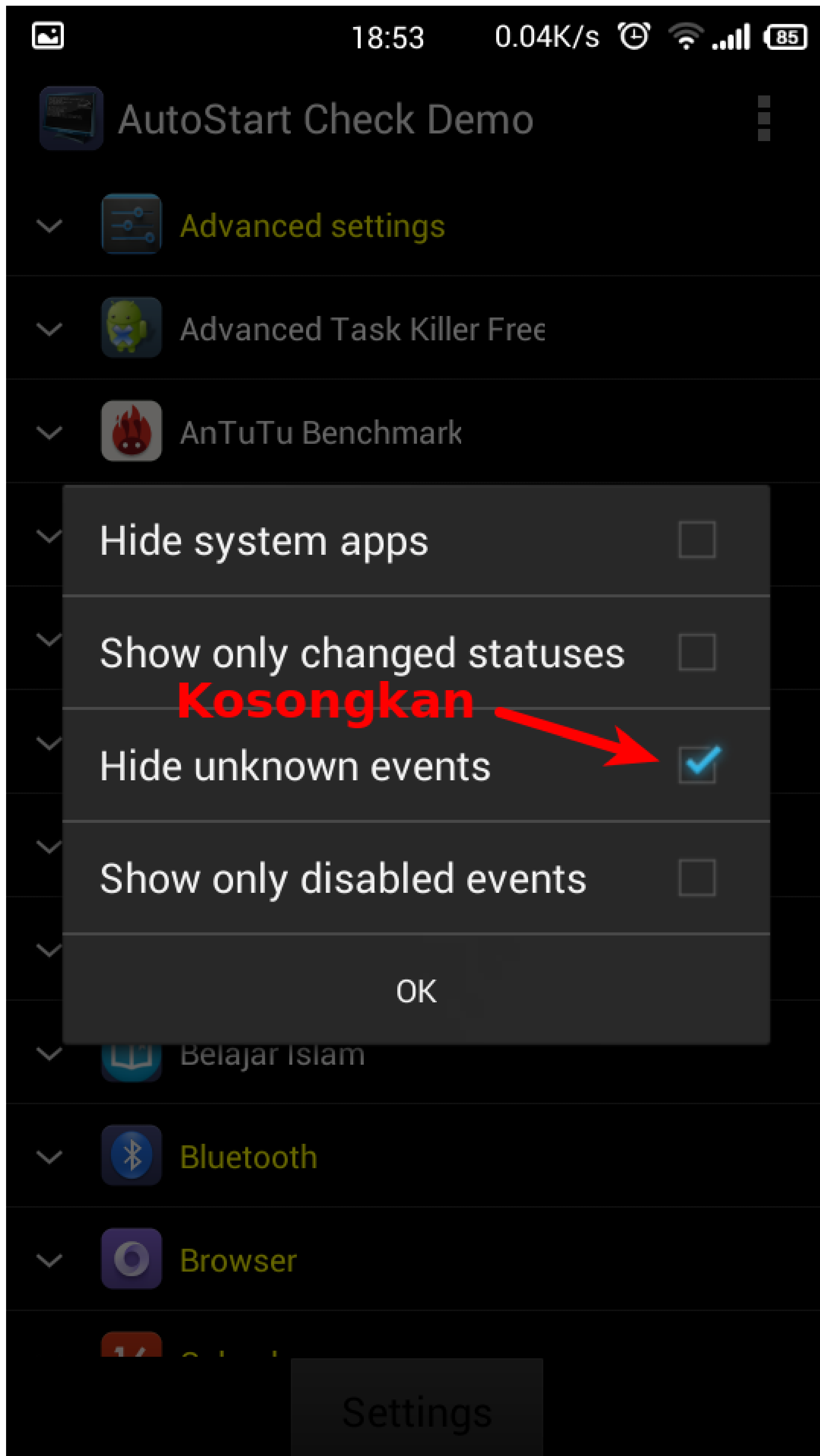


4. Setiap kali ASC digunakan,

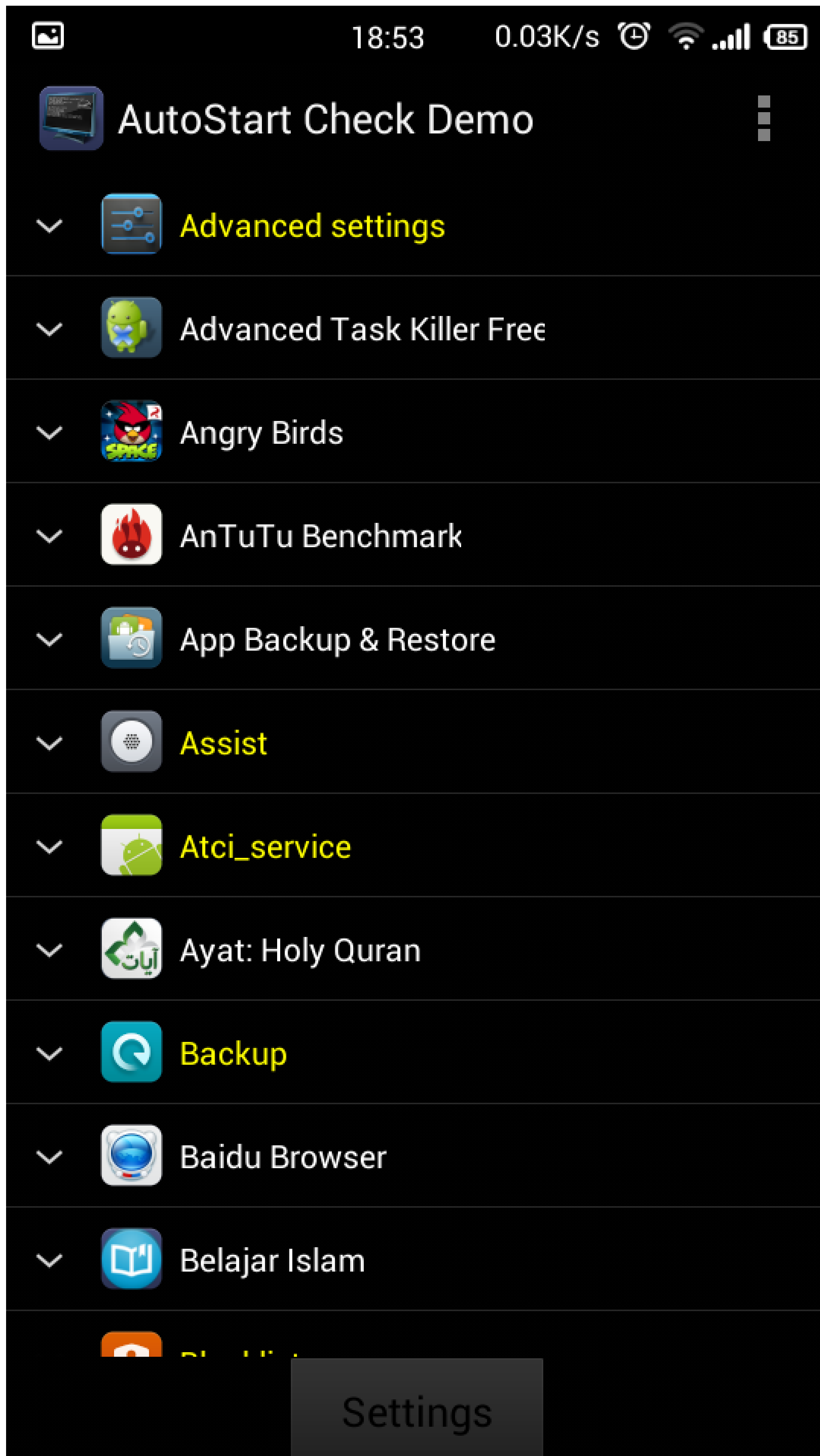
klik **Menu** di sudut kanan atas, lalu klik **View**.



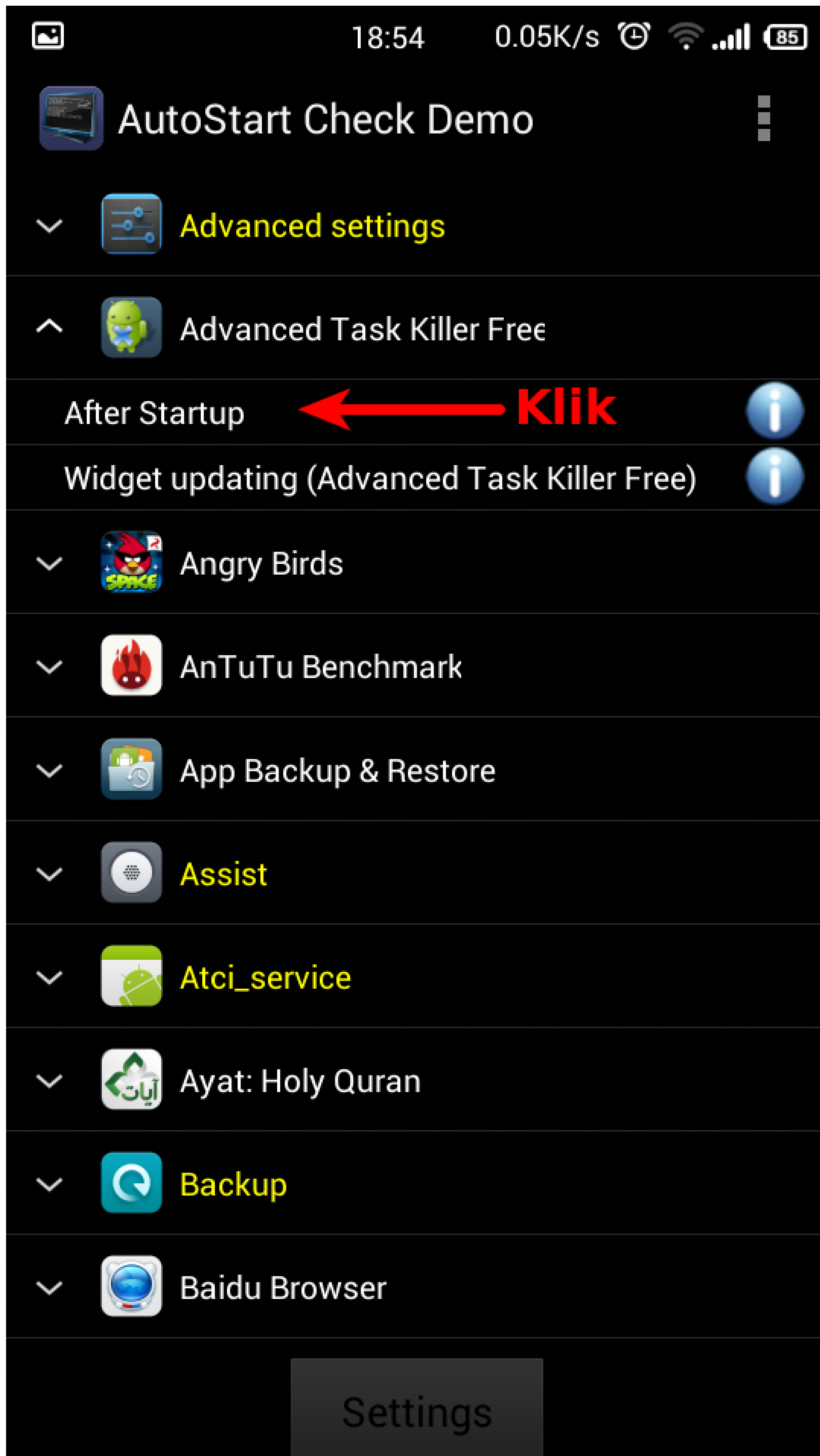
5. Kosongkan centang “**Hide unknown events**”, klik **OK**.



6. Hasilnya seperti ini, tampilan daftar aplikasi. Proses bersih-bersih siap dilakukan.

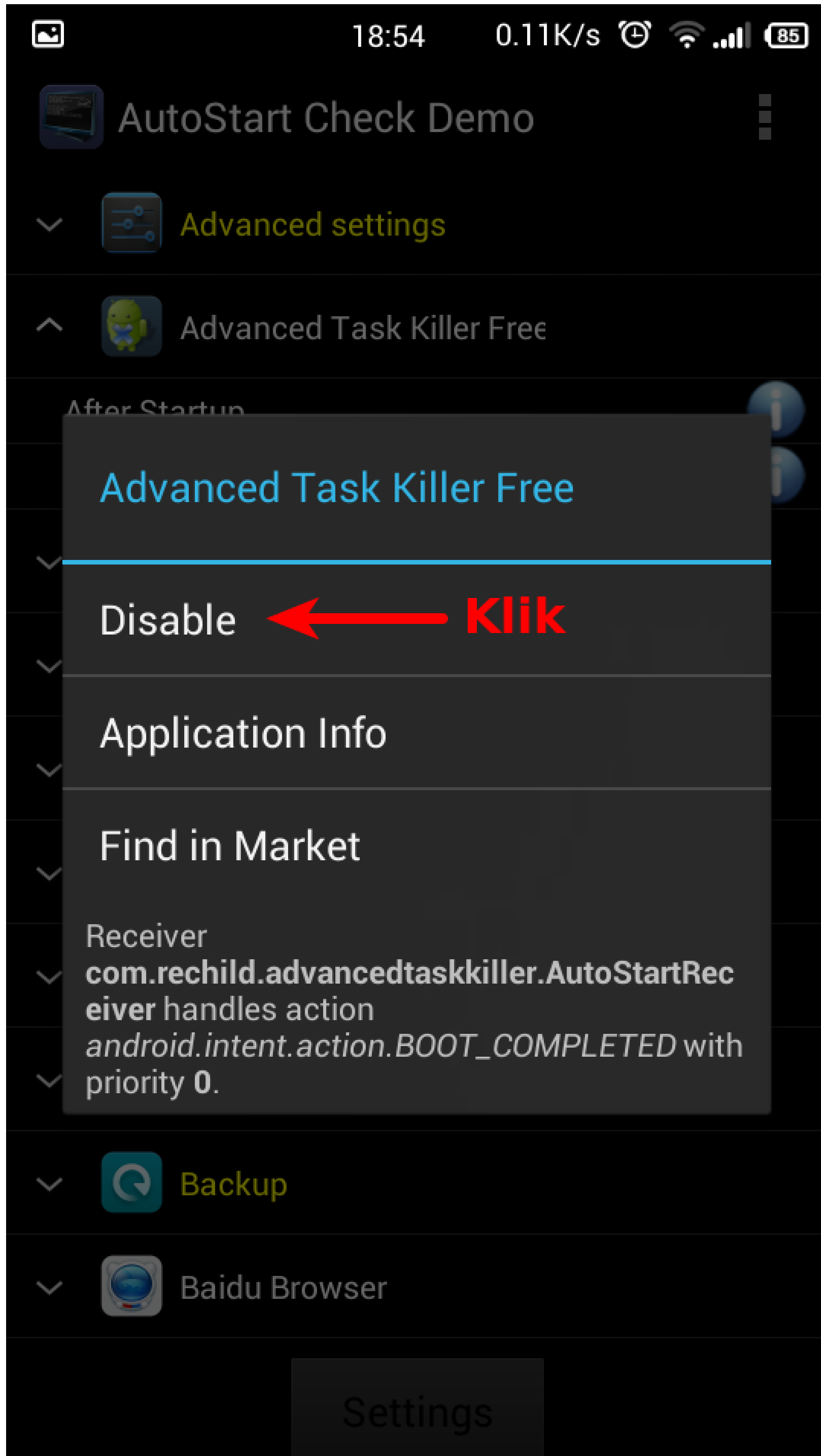


7. Sebagai contoh, kita bersihkan **Advanced Task Killer**. Klik nama aplikasi, lalu klik event **After Startup**.



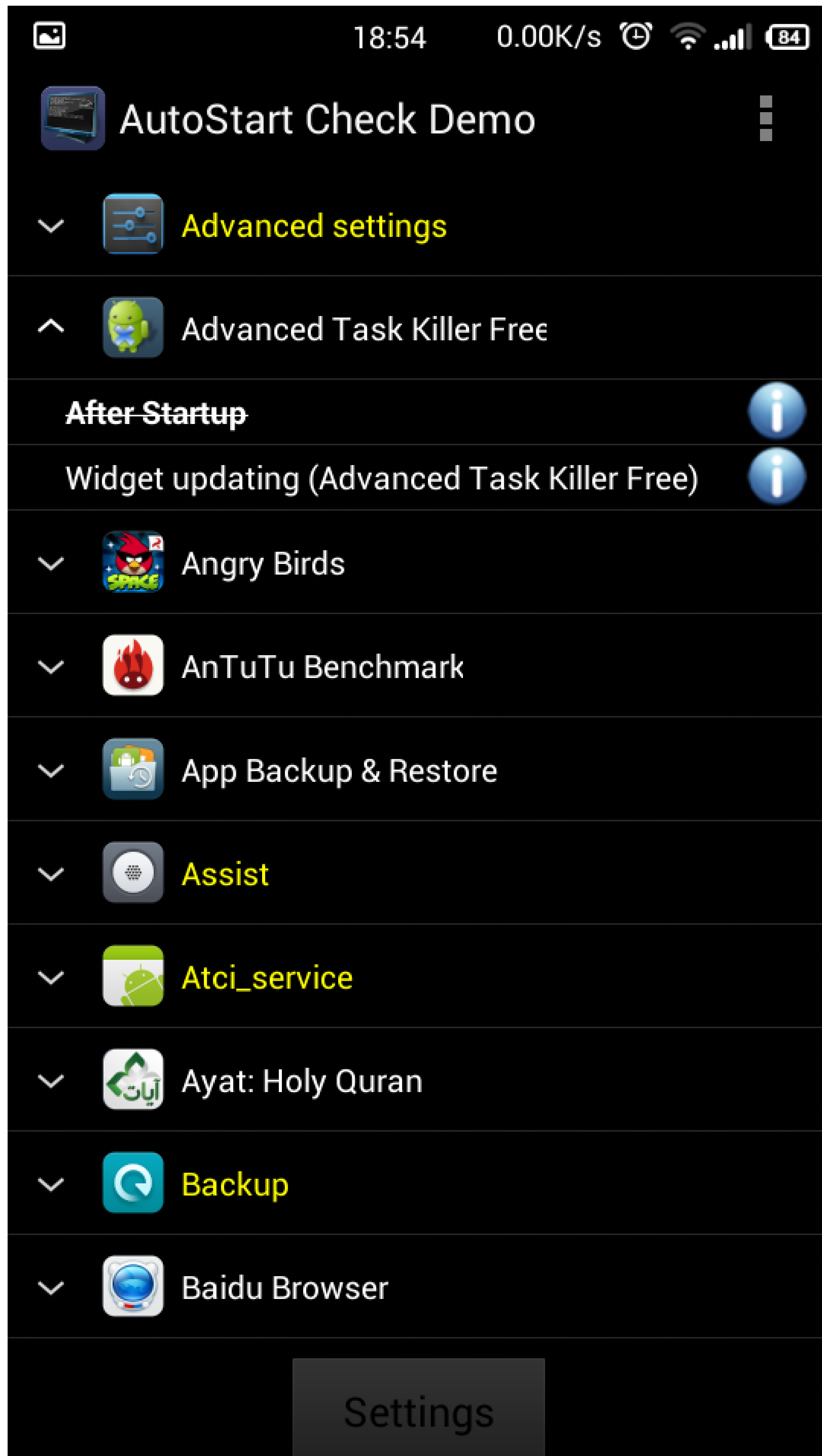
8. Muncul **Popup**, klik **Disable**,

tunggu beberapa detik sampai selesai.



9. Hasilnya seperti ini,

event **After Startup** ~~tercoret~~.



10. Selesai.

Selamat, agan sukses membersihkan aplikasi Advanced Task Killer dari daftar event yang tak perlu.

Untuk aplikasi lainnya, agan bisa lakukan sendiri. Terlampir **screenshot** beberapa aplikasi yang bisa dijadikan panduan. Ane sudah coba sendiri, lancar jaya gan, ga ada masalah.

Nanti, setiap kali agan selesai instal aplikasi baru, biasakan untuk memeriksanya dengan ASC. Jika terdeteksi menggunakan event tidak semestinya, coba bersihkan. Lama-lama, agan akan hafal mana aplikasi dan event yang normal, mana yang tidak.

# Membersihkan aplikasi bandel dari RAM

Beberapa aplikasi ternyata betah memenuhi RAM saat selesai dijalankan. Ini yang kita sebut sebagai aplikasi bandel; akan kita coba tangani.

Tidak semua aplikasi yang berada di RAM perlu dibersihkan, sebagian akan kita biarkan, misal:

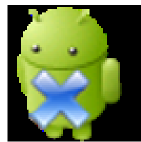
- ✔ Aplikasi inti (core) bawaan dari OS Android, seperti Messaging dll
- ✔ Aplikasi yang agan perlukan, seperti WhatsApp dan BBM.

Untuk bersih-bersih ini, kita akan dibantu oleh sebuah aplikasi yang dapat menghentikan aplikasi bandel. Aplikasi ini aman dan mudah digunakan, sekali klik.

Baik, agan-agan, perkenalkan ...

12:49 0.14K/s 21

Advanced Task Killer



Advanced Task Killer

ReChild

INSTALL




Downloads




533,191



Productivity

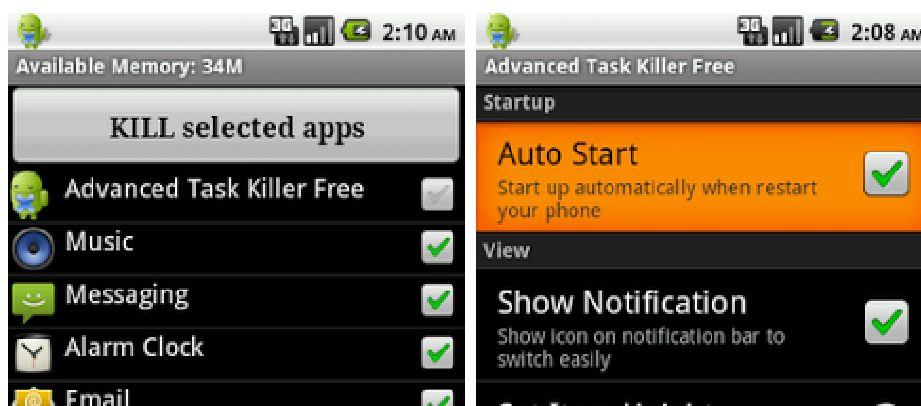


Similar

Advanced Task Killer is also known as ATK which is #1 task manage app. It is a tool to kill applications and boost memory.

-Ignore List

READ MORE




**Advanced Task Killer (ATK)**

[http://goo.gl/9xiklq](http://goo.gl/9xiklq)

**ATK** adalah aplikasi untuk menampilkan dan menghentikan aplikasi yang masih berada di RAM.

Di Play Store tersedia dua versi ATK, gratis dan berbayar. Untuk tutorial ini, kita gunakan yang gratis. Jika suka, silakan nanti agan beli.

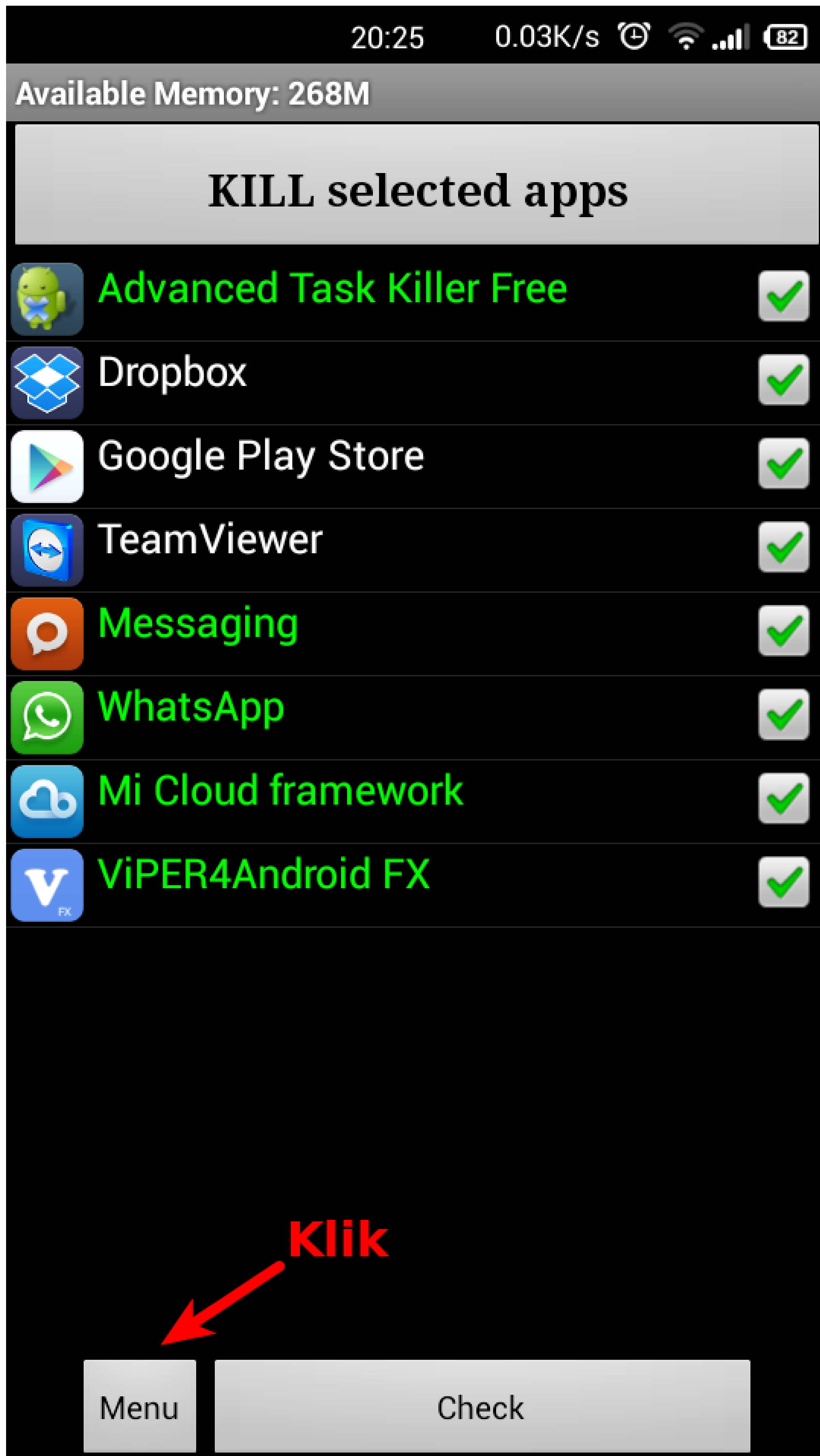
Kalo belum punya, donlot dan instal dulu ATK. Ukurannya kecil, sekitar 150 KB.

Dibantu dengan gambar panduan, kita akan

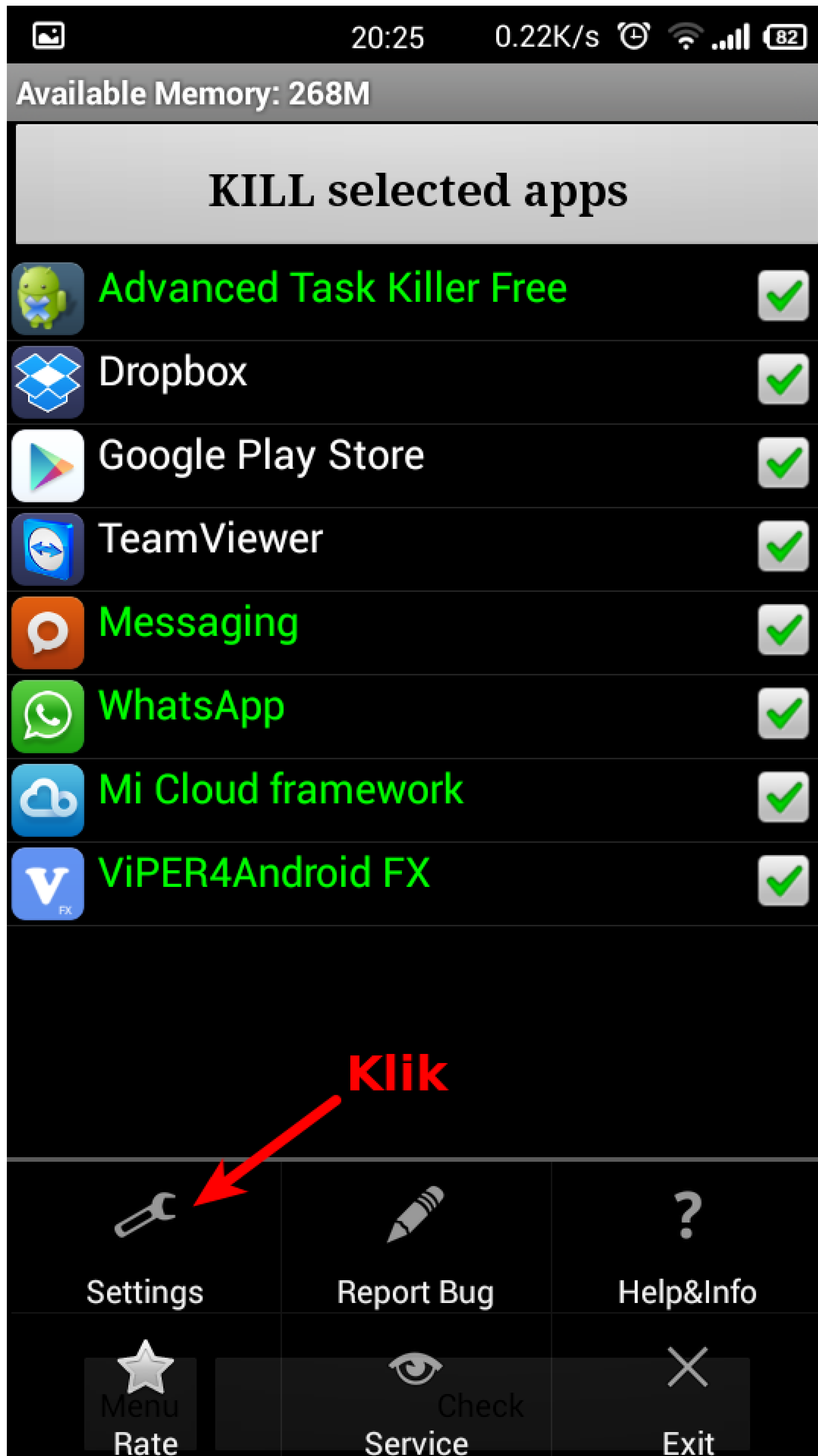
- ✔ mengatur setting awal ATK (gambar 1-6)
- ✔ mengatur daftar aplikasi yang dibiarkan ATK (gbr. 7-9)
- ✔ membersihkan aplikasi bandel (gbr. 10-17)

1. Pertama kali, atur settings.

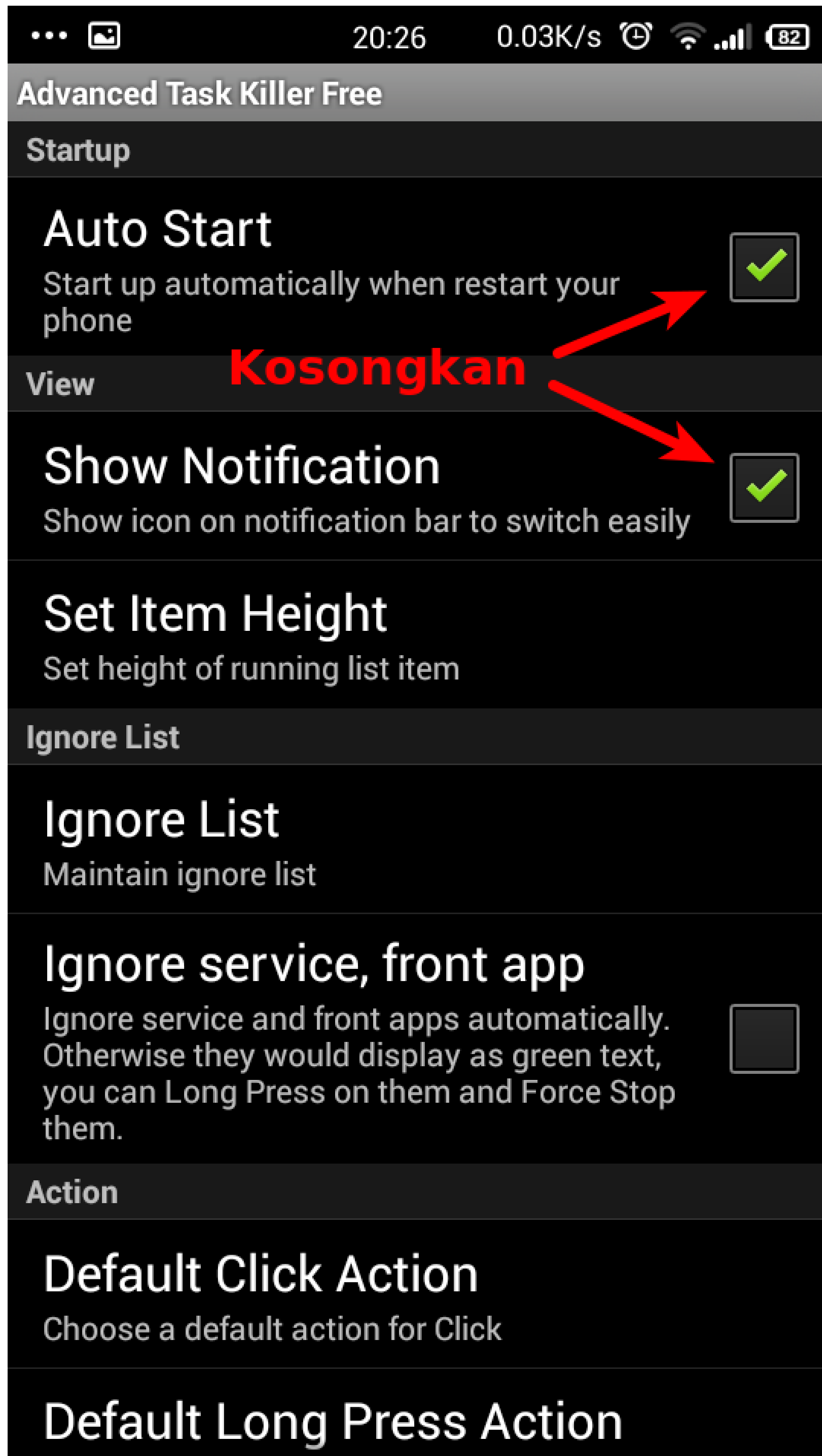
Klik **Menu** di sudut kiri bawah.



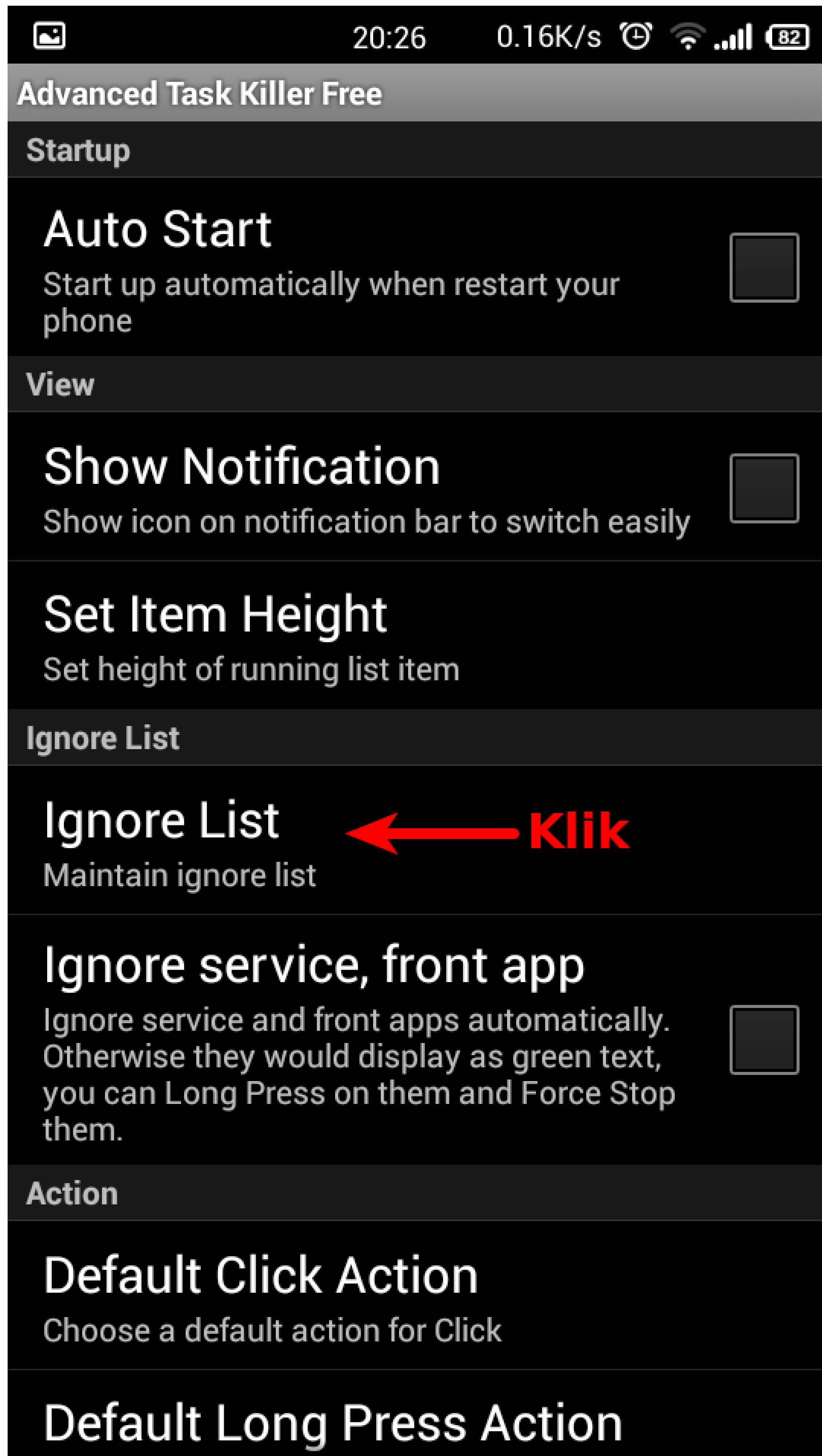
2. Muncul **Popup**, klik **Settings**.



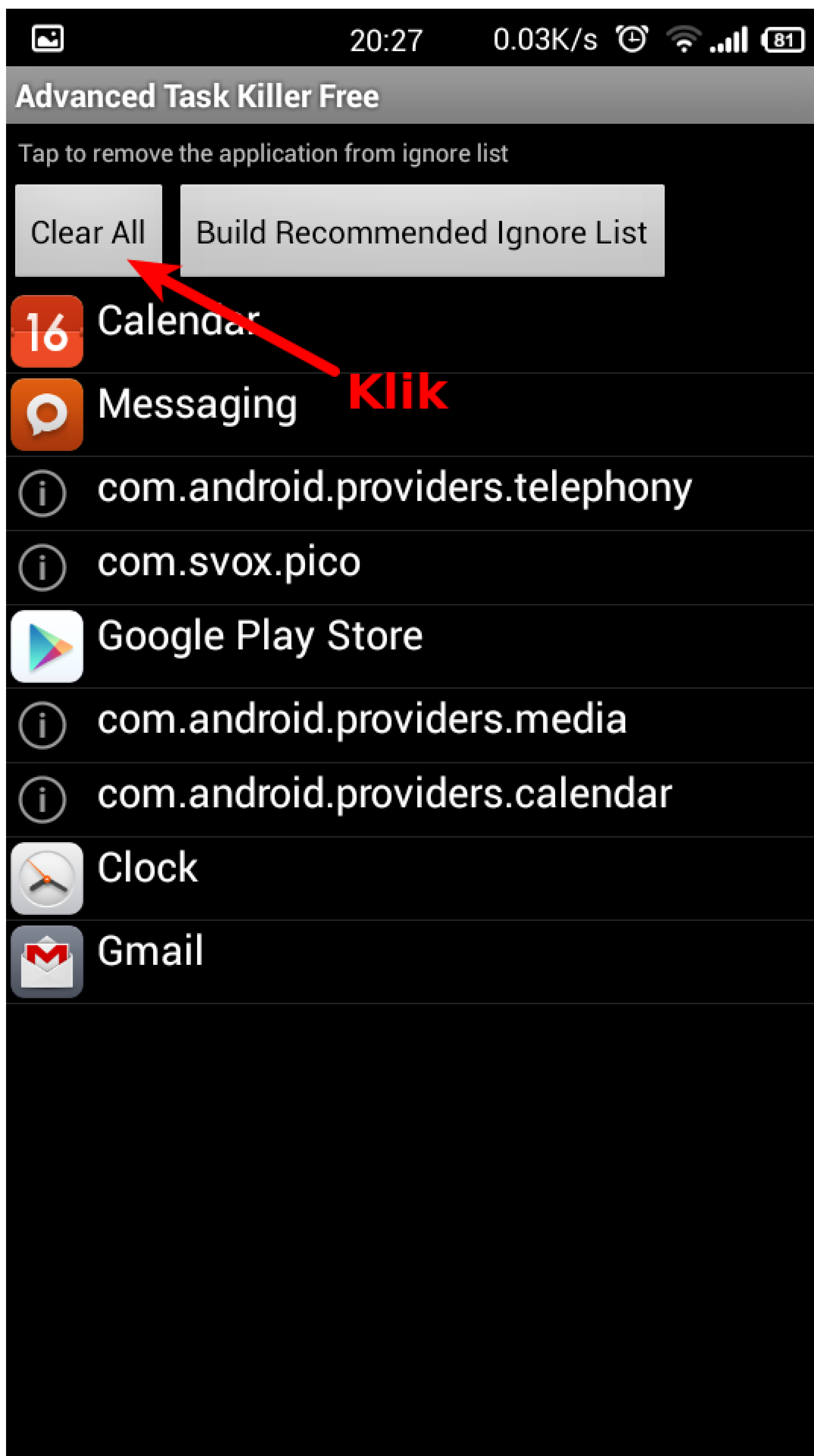
3. Kosongkan centang “**Auto Start**” dan “**Show Notification**”.



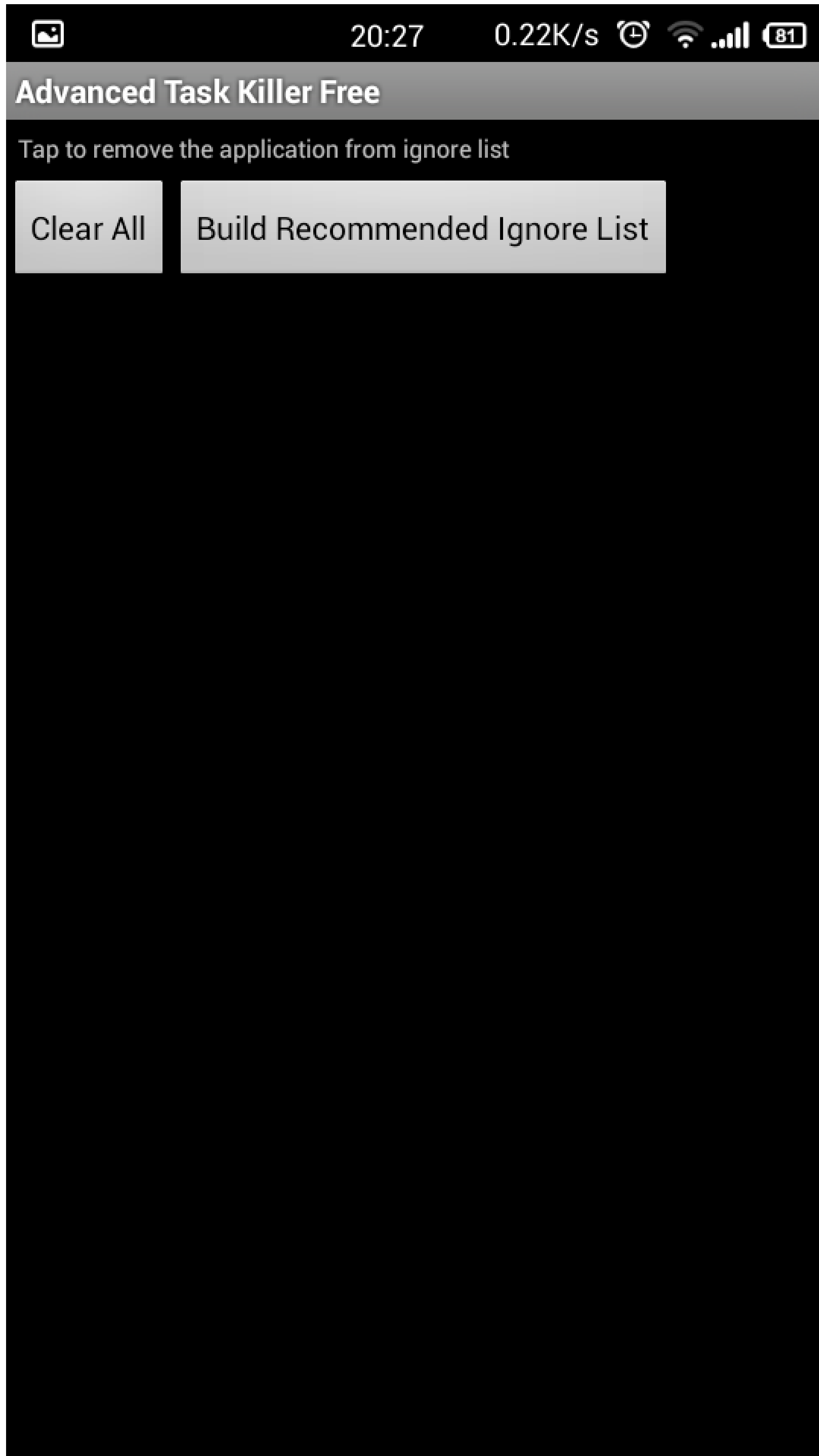
4. Kita periksa daftar Ignore, yakni daftar aplikasi yang dibiarkan di RAM. Klik "**Ignore List**".



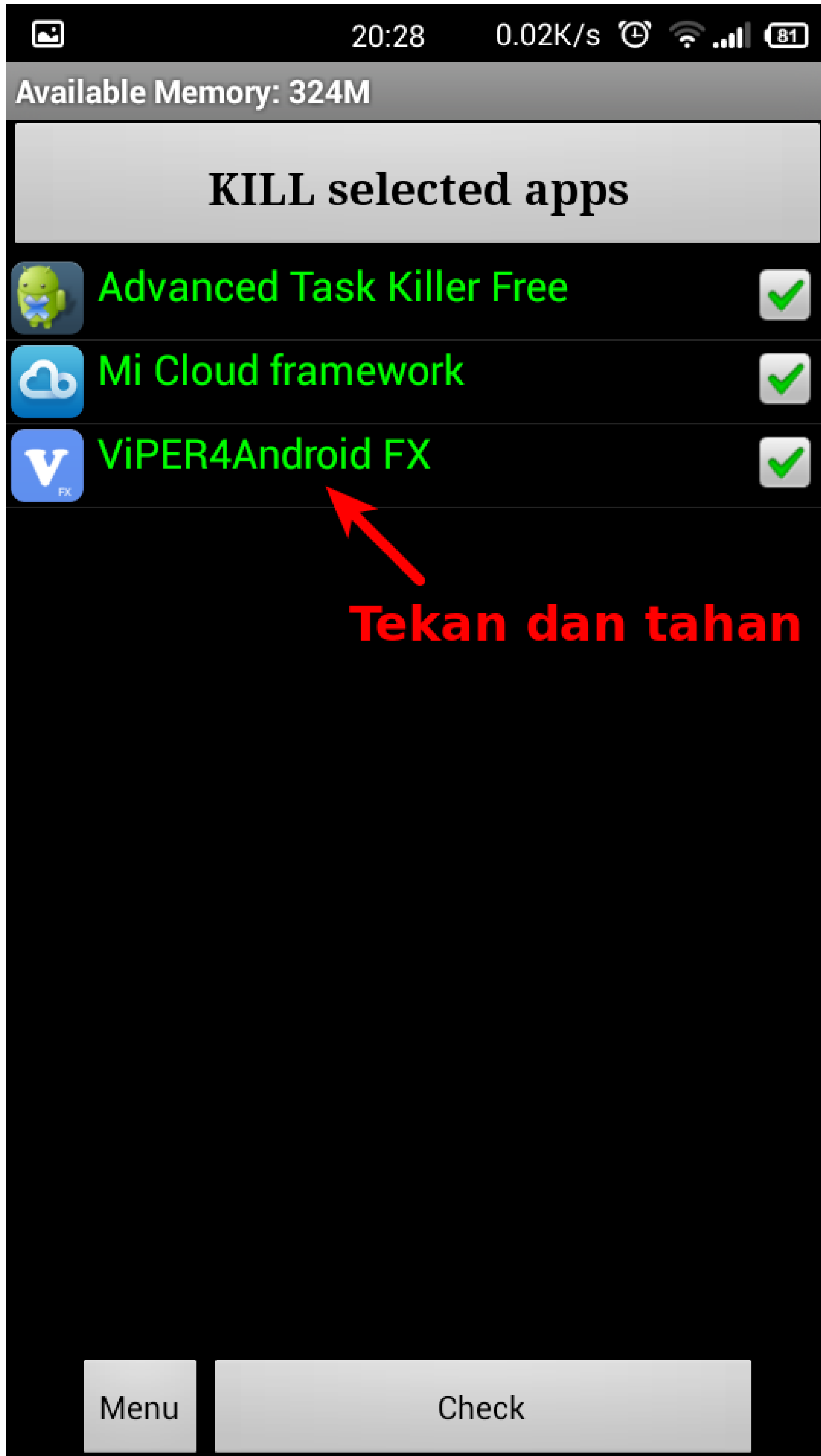
5. Muncul daftar Ignore rekomendasi ATK. Kita bersihkan dulu, nanti buat sesuai kebutuhan. Klik "**Clear All**".



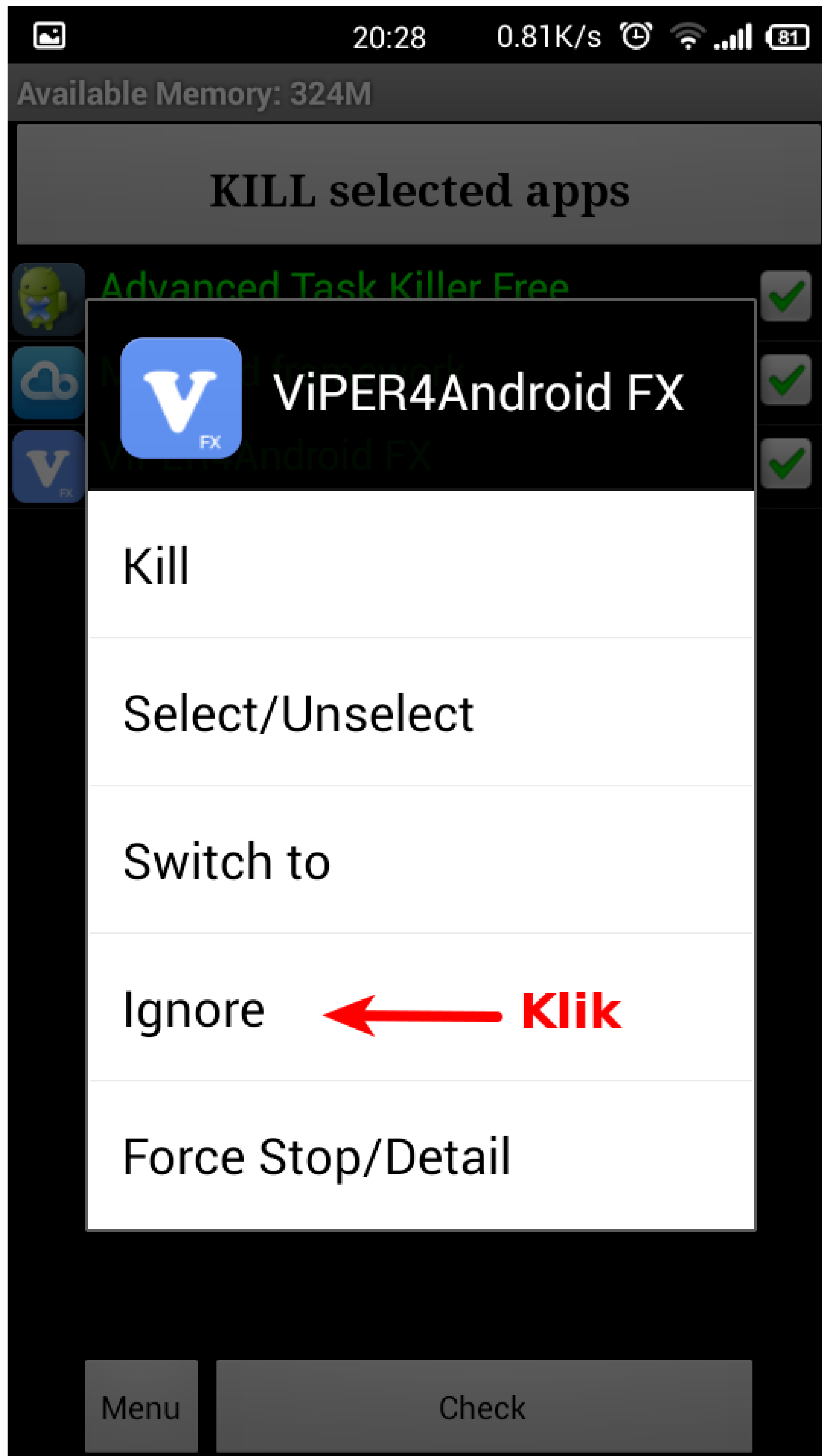
6. Hasilnya adalah daftar Ignore bersih.



7. Lalu, kita tambahkan aplikasi yang dibiarkan di RAM. Misal, ViPER4Android FX. **Tekan dan tahan** aplikasi tersebut.

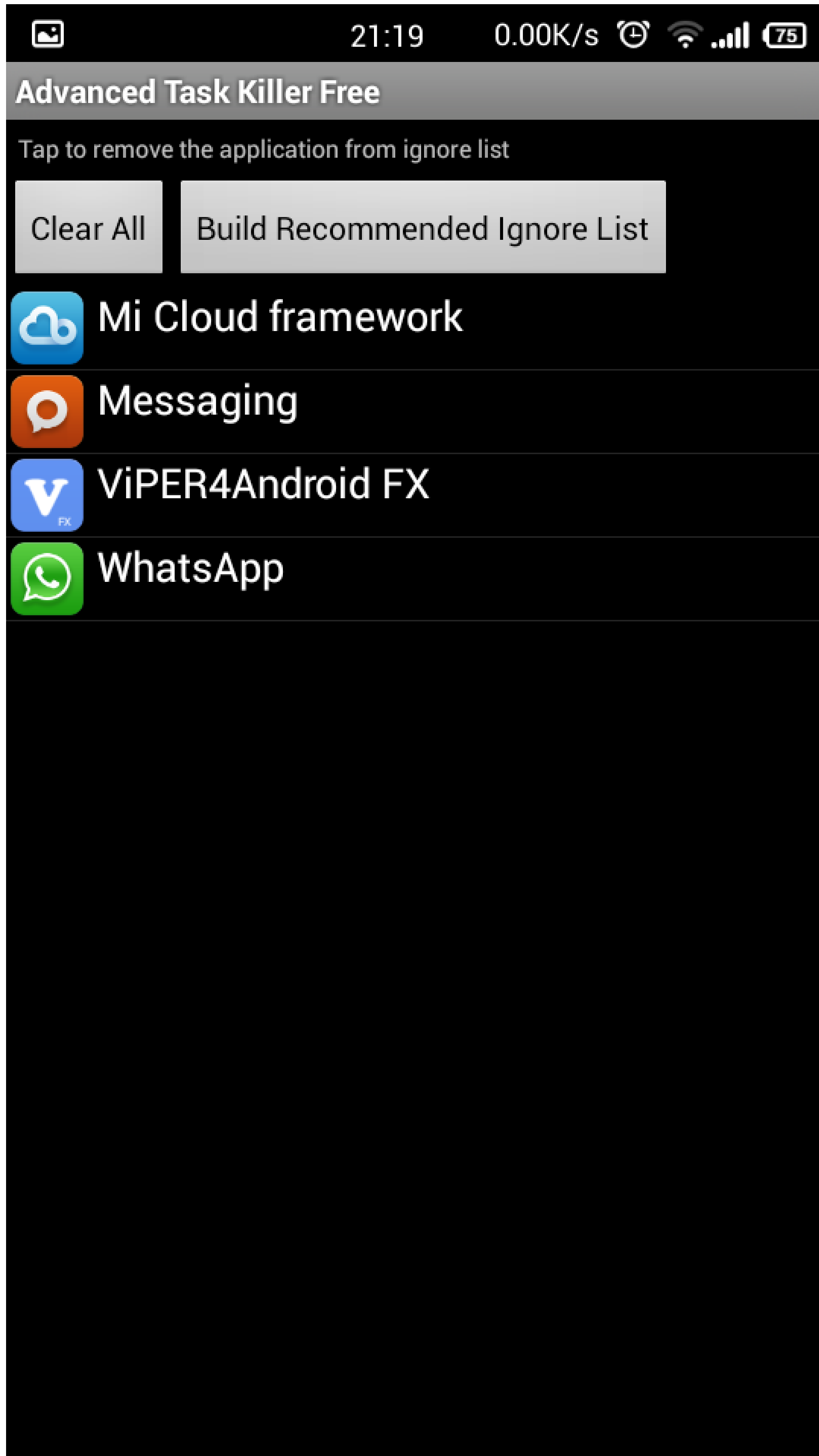


8. Muncul **Popup**, klik **Ignore**.

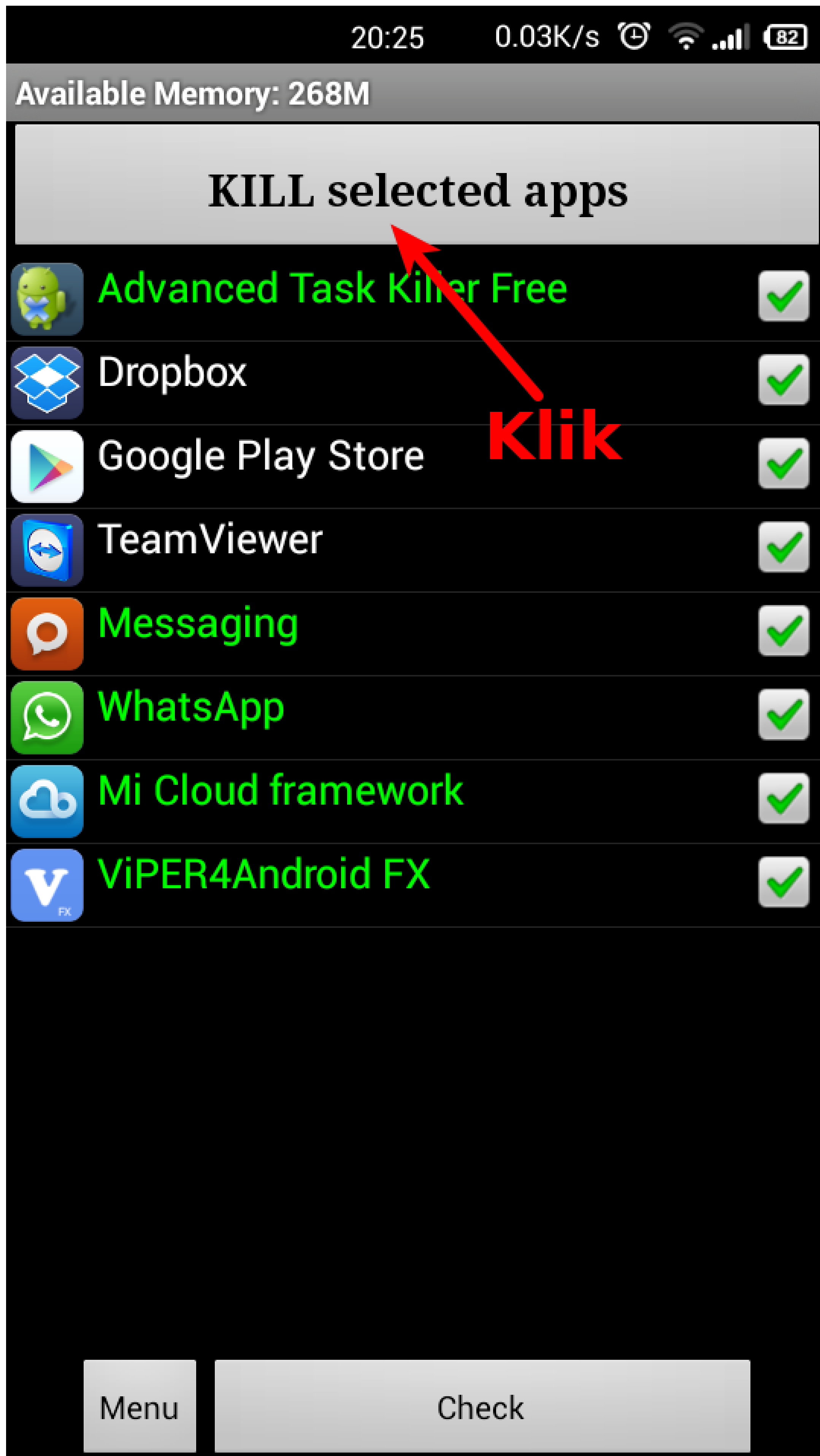


9. Ulangi langkah 7-8 jika diperlukan.

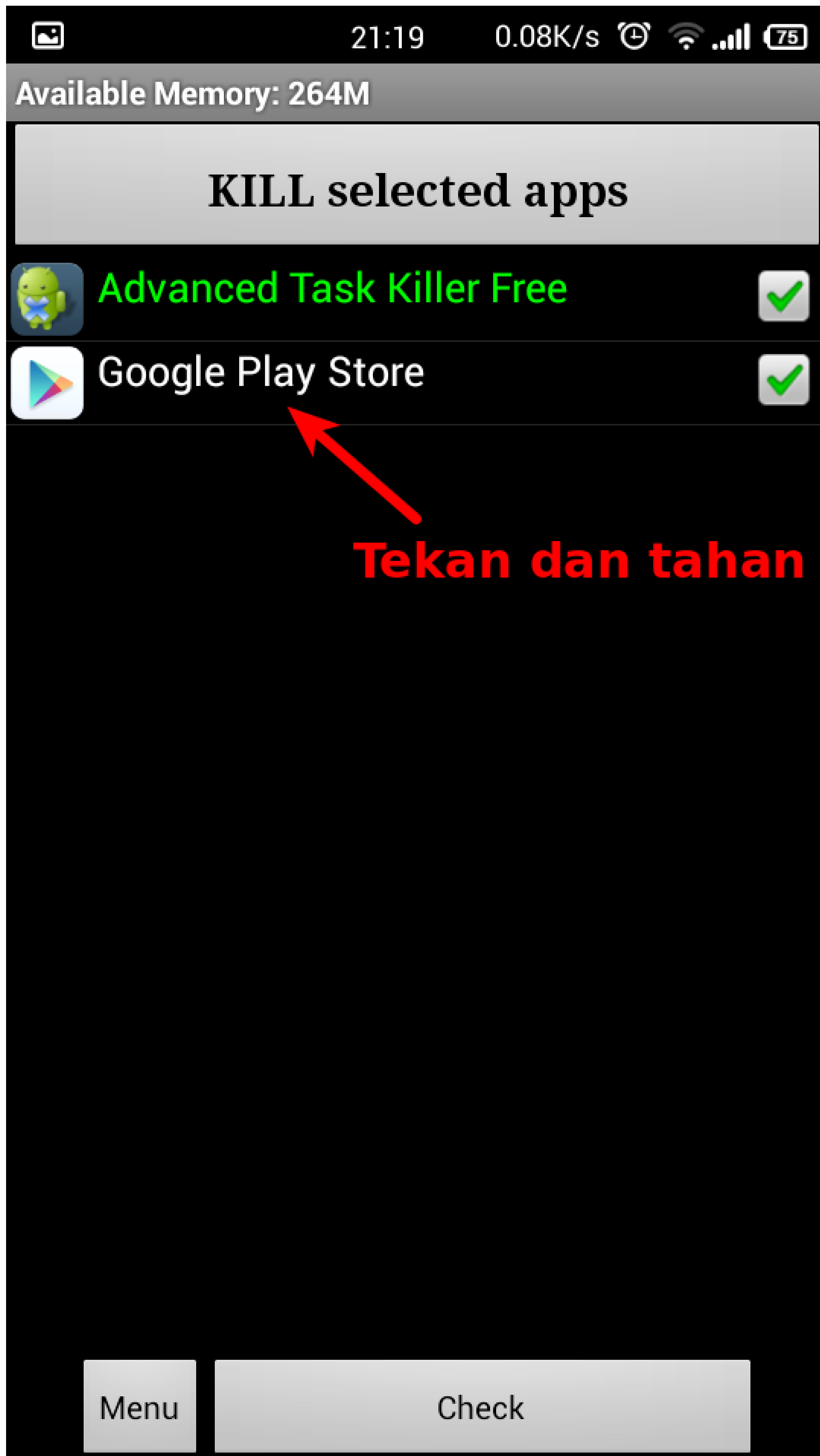
Sebagai contoh, ini daftar Ignore punya ane.



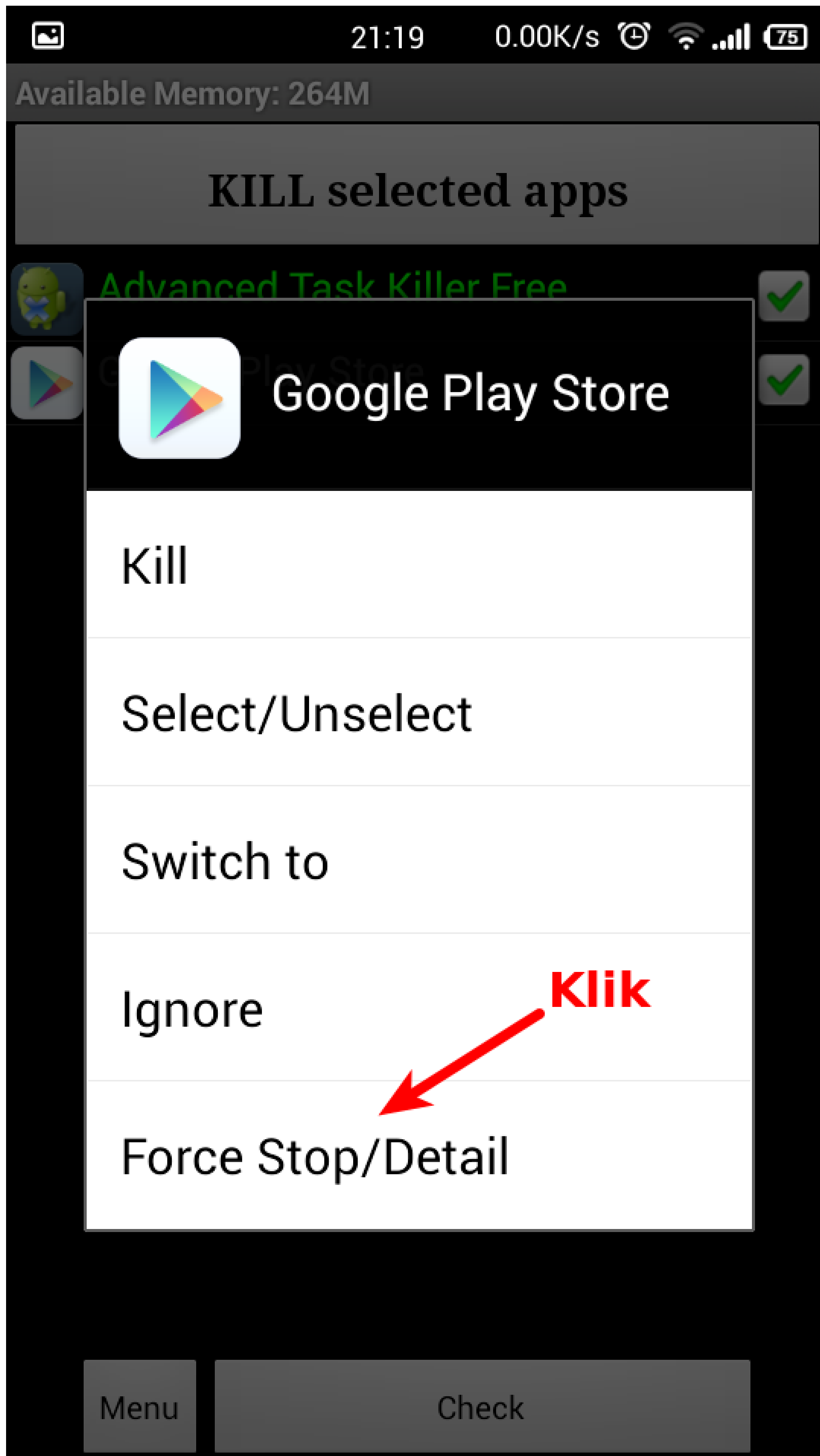
10. Sekarang, kita bersih-bersih aplikasi bandel dari RAM. Cukup klik tombol “**KILL selected apps**”. Beres.



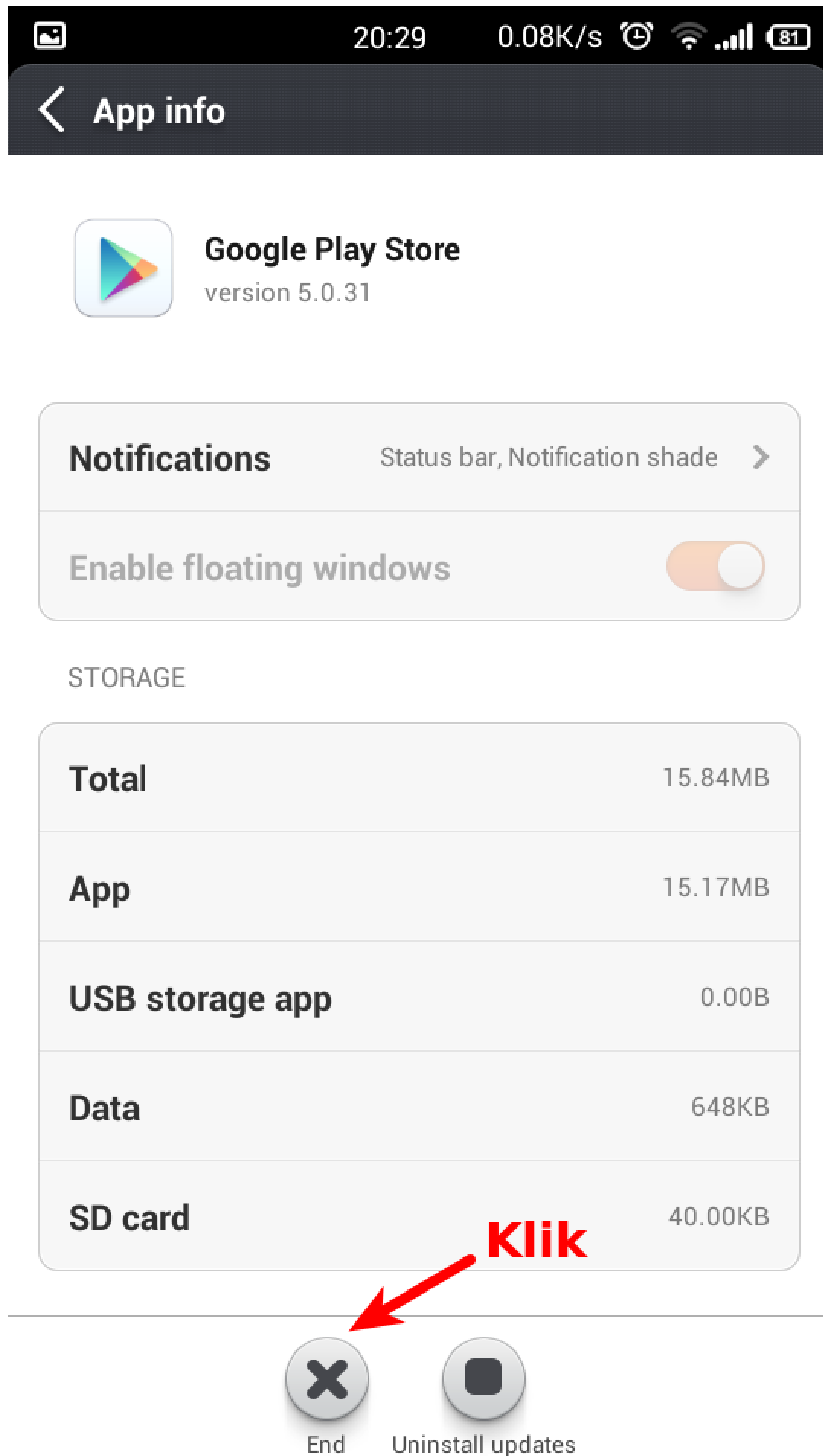
11. Jalankan ATK sekali lagi. Jika ada yang tetap membandel, **Tekan dan tahan** aplikasi tersebut, sampai muncul **Popup**.



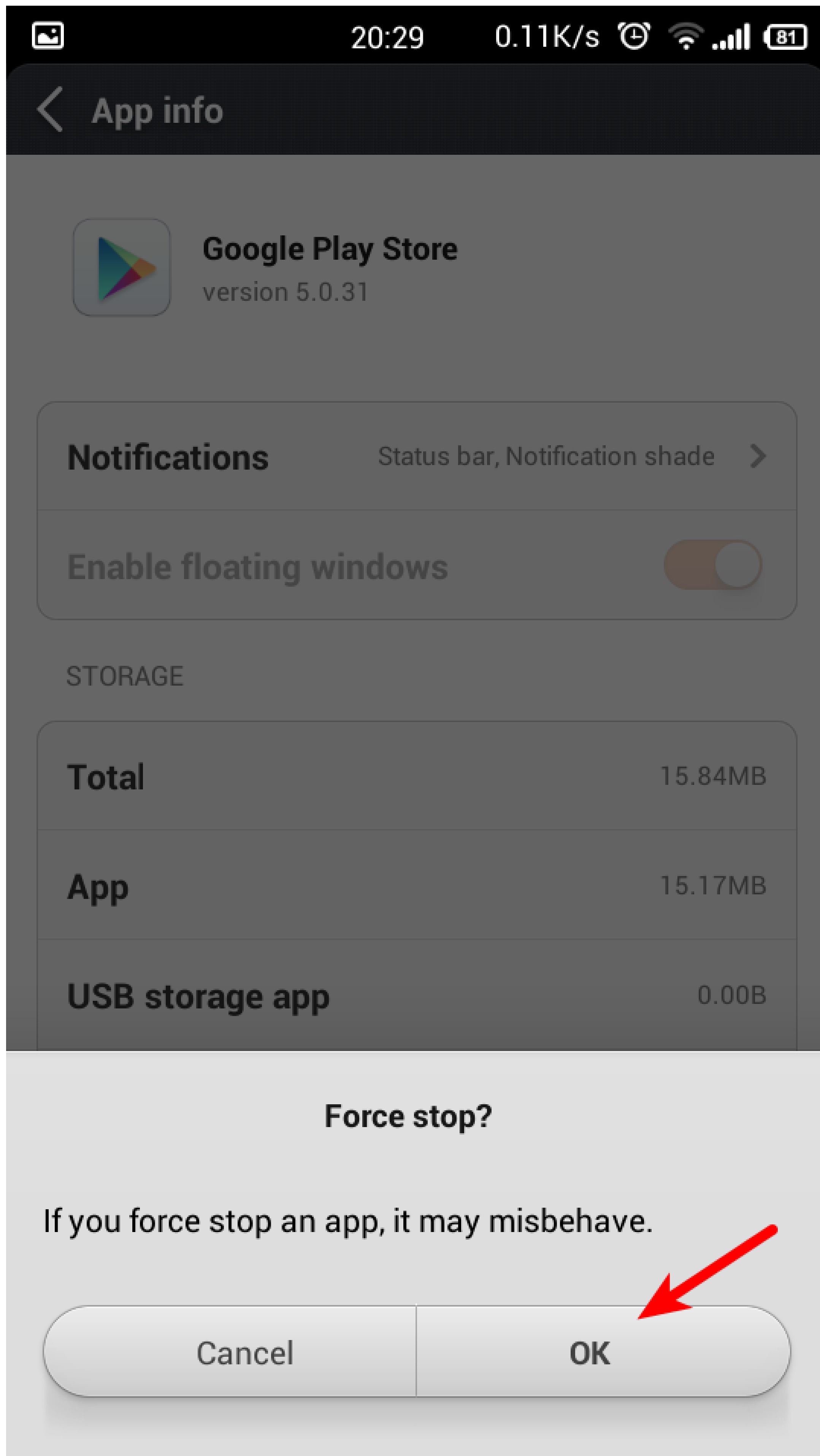
12. Muncul **Popup**, klik "**Force Stop/Detail**".



13. Muncul **App info,** klik tombol **End** di bawah.

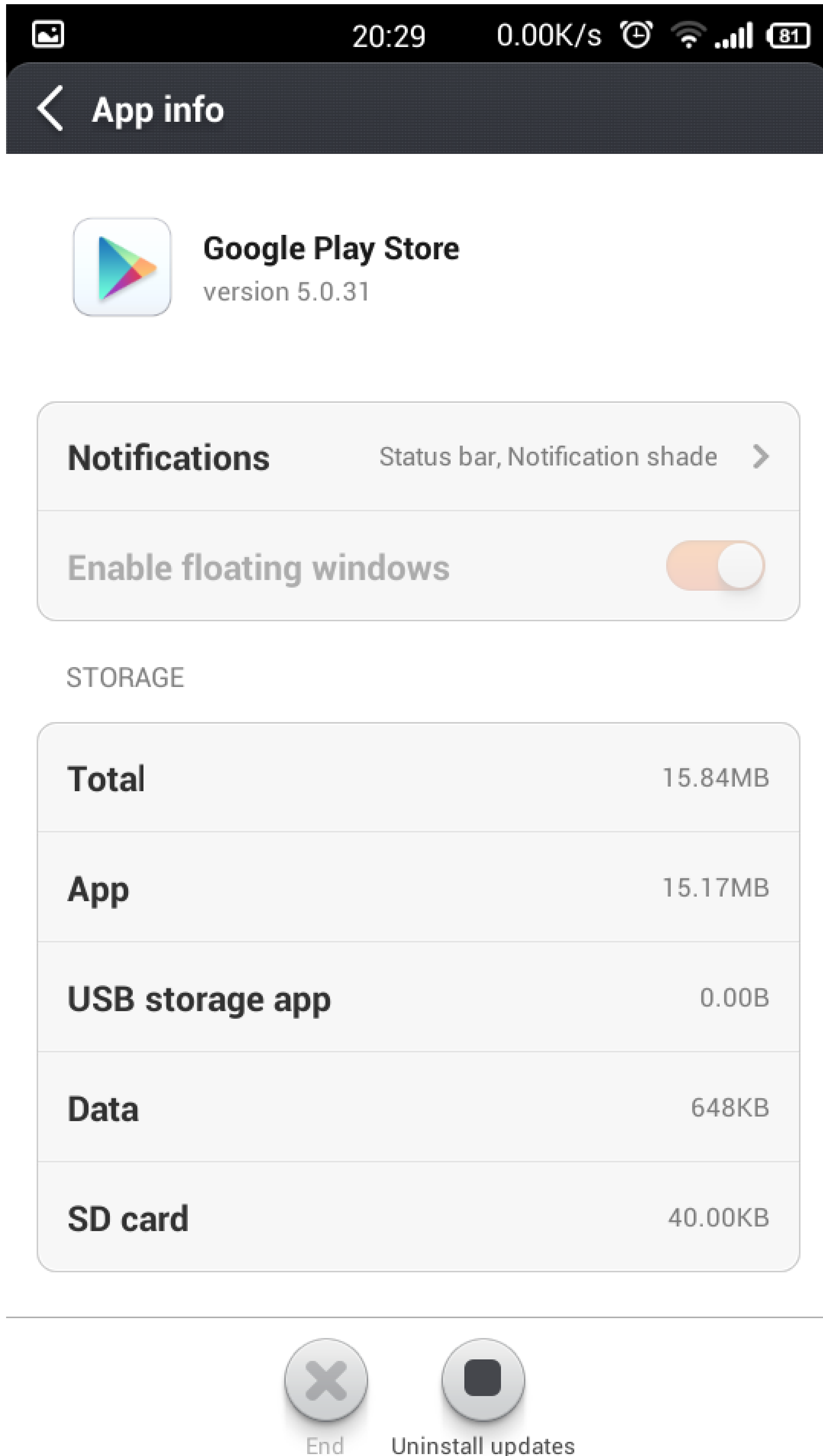


14. Muncul **Popup** konfirmasi, klik **OK**.

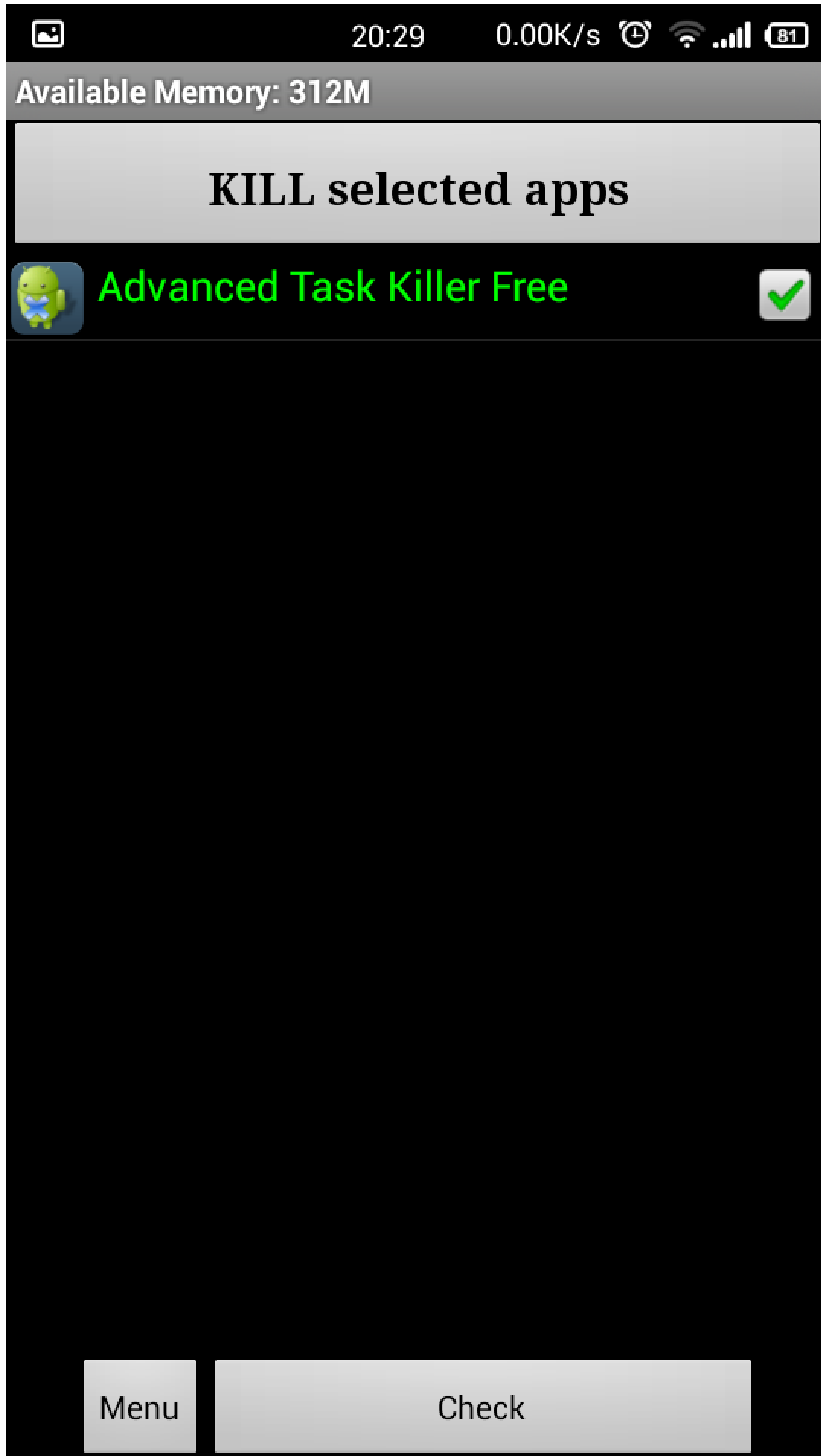


15. Aplikasi bandel sukses dihentikan.

Lalu tekan tombol **Back** di hp.



16. Tanda bahwa aplikasi bandel sukses ditangani adalah jika ATK dijalankan sekali lagi, tampilannya seperti ini:



17. Untuk mempermudah, disarankan menyimpan link ATK di **Favourite Tray/Launcher Bar**, seperti ini.



18. Selesai.

Selamat, agan sukses menghentikan aplikasi membandel dari RAM. Lakukan bersih-bersih ini setiap kali agan selesai menjalankan aplikasi. Cukup sekali klik, beres.

Boleh jadi kelak akan agan jumpai, ternyata tidak sedikit aplikasi yang memang betah tinggal di RAM.

# Mengatur setting MIUI (opsional)

Ada beberapa setting dari Android yang perlu mendapat perhatian khusus karena terkait penggunaan daya dan quota.

Android memberikan pilihan, diaktifkan (on) atau di-nonaktifkan (off). Kebanyakan ane rekomendasikan untuk di-nonaktifkan, kecuali jika agan punya alasan kuat untuk mengaktikannya.

Berikut ini dibahas beberapa setting yang dimaksud. Walaupun dilakukan pada ROM MIUI, namun dapat dijadikan acuan untuk ROM lainnya, baik Custom maupun Stock.

## Panduan setting

1. Setting aksesoris

Setting ini bersifat tambahan pemanis, seperti efek audio dan visual. Karena dijalankan berulang-ulang, tentu memakan daya. Misal:

- ✔ Launcher settings (gbr. 1)
- ✔ Sound Switch (gbr. 2)
- ✔ Sound (gbr. 3)

2. Setting pengiriman data

Setting ini terkait dengan pegiriman data-data dari hp agan ke server luar secara berkala. Tentunya, ini akan memakan daya dan quota internet agan. Misal:

- ✔ User experience program (gbr. 5) dan Micloud (gbr. 7) ke server xiaomi
- ✔ Location services (gbr. 6) dan Backup & reset (gbr. 11) ke server google
- ✔ Sync (grb. 8) ke berbagai server (google, xiaomi, dropbox, skype, whatsapp, blackberry, line)
- ✔ Date & time (gbr. 10) ke server provider telepon

3. Setting fitur tambahan

Setting ini terkait kemampuan khusus, biasanya dengan kompensasi penggunaan daya yang signifikan. Misal:

- ✔ ViPER4Android FX (gbr. 4) yang meningkatkan kualitas output audio
- ✔ Location services (gbr. 6), deteksi lokasi presisi untuk keperluan GPS

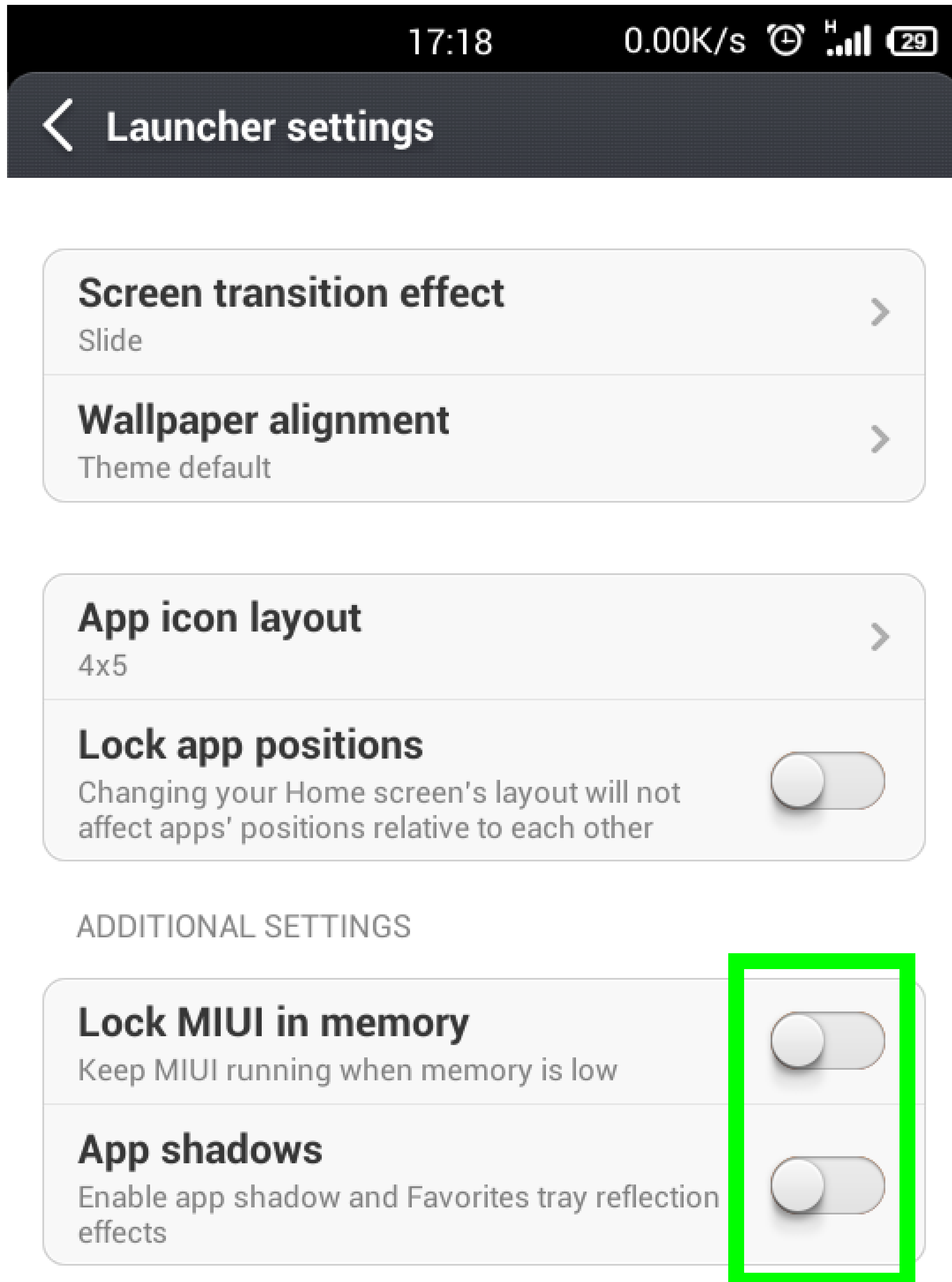
4. Setting hemat daya

Setting ini disediakan oleh ROM. Disarankan untuk **mengaktifkannya**. Misal, Battery (gbr. 9).

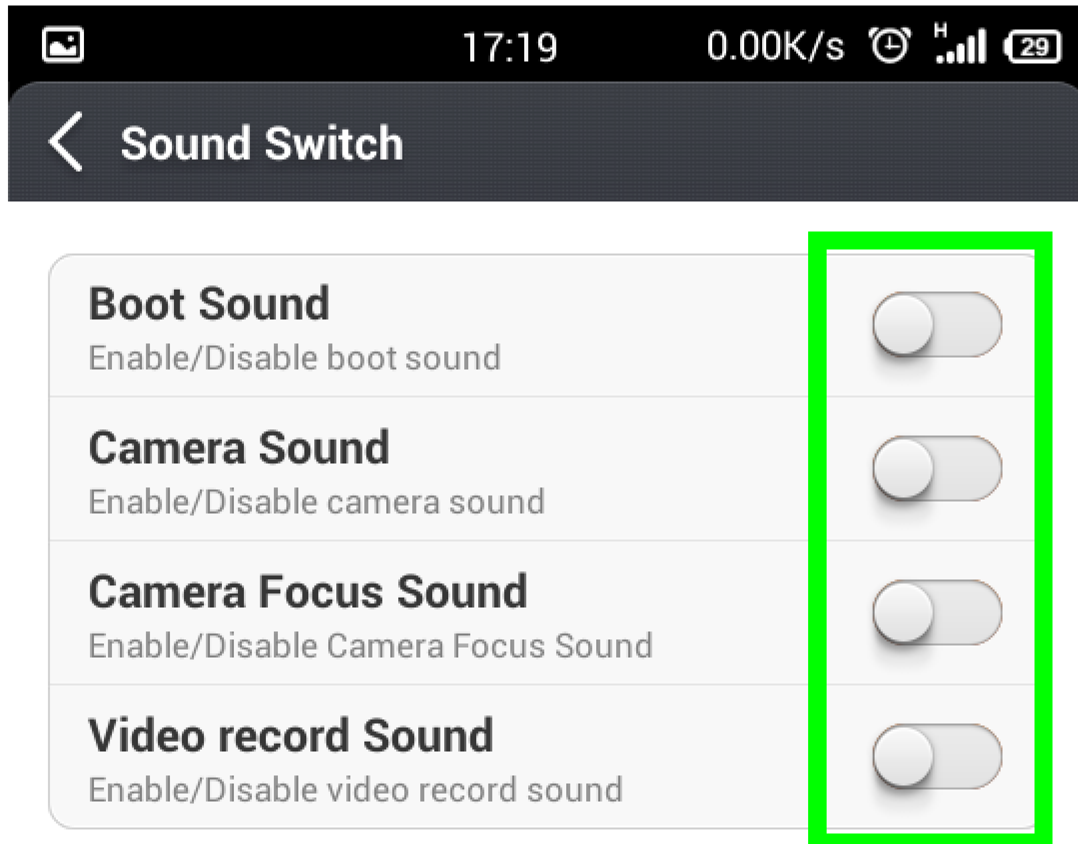
5. Setting fitur khusus

Setting ini disediakan oleh ROM. Disarankan untuk me-nonaktifkan, kecuali ada keperluan. Misal, Developer options (gbr. 12)

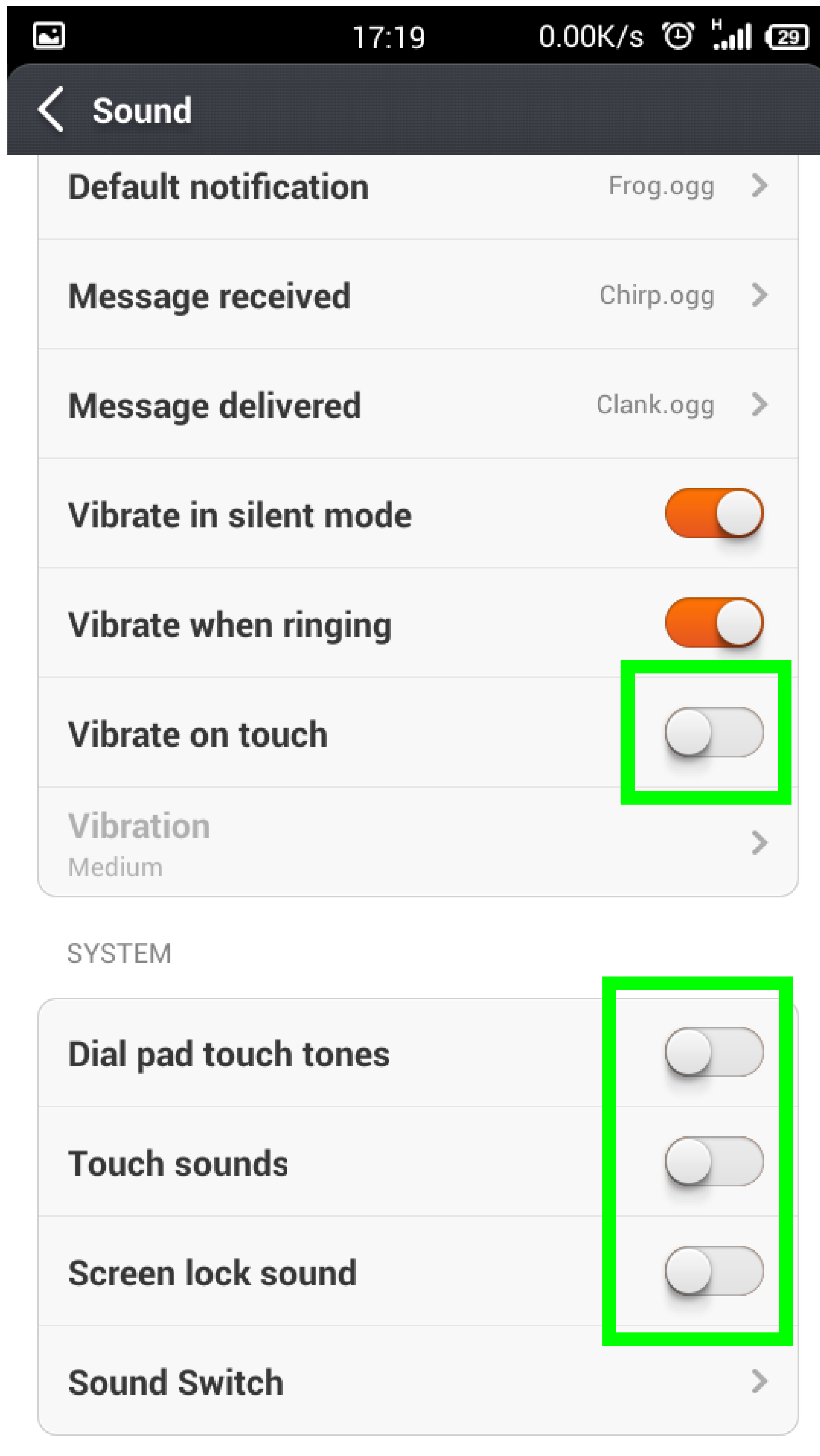
1. Launcher settings



# 2. Sound Switch

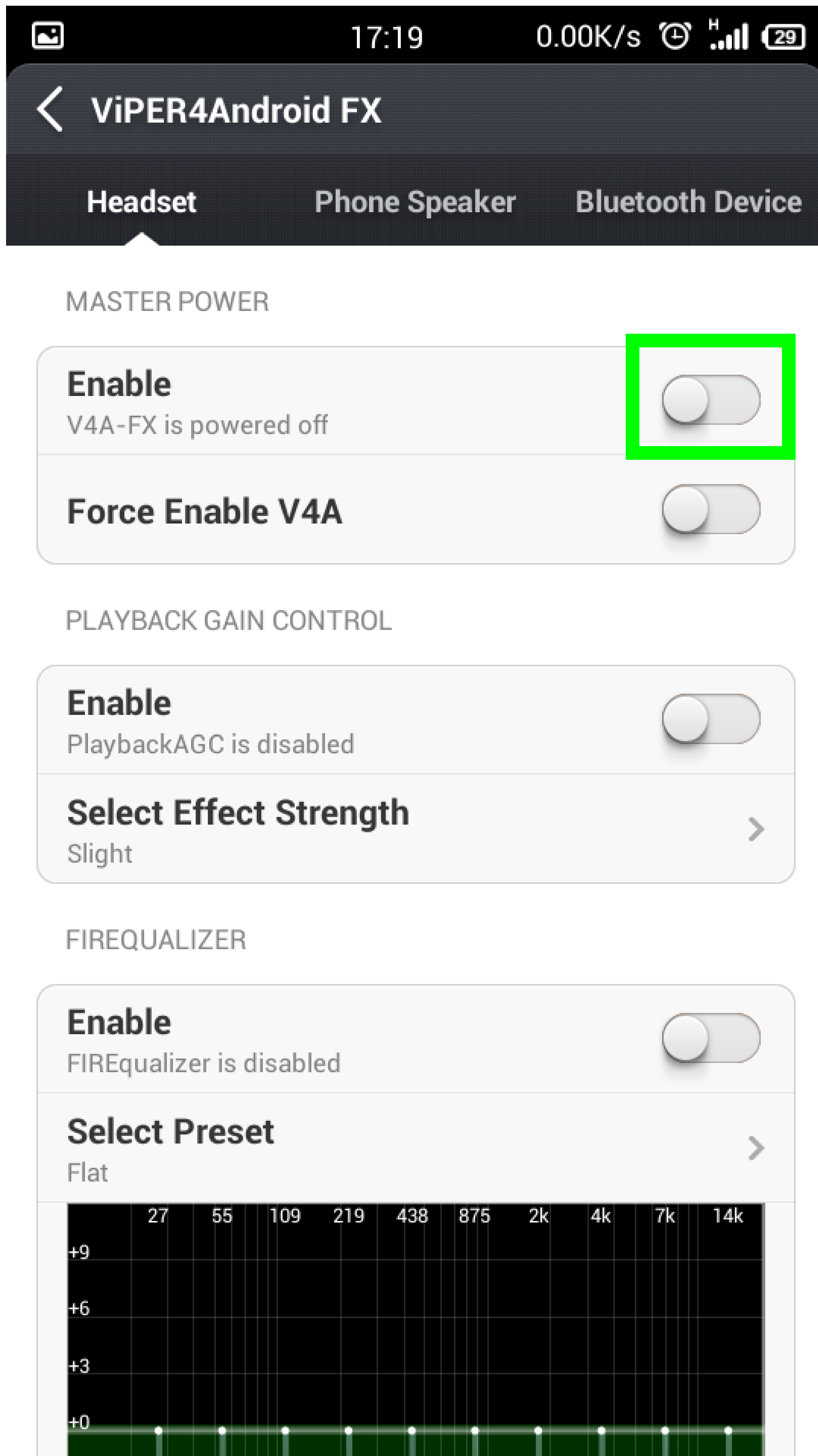


## 3. Sound


17:19
0.00K/s
29
Sound
Default notification
Frog.ogg
Message received
Chirp.ogg
Message delivered
Clank.ogg
Vibrate in silent mode
Vibrate when ringing
Vibrate on touch
Vibration
Medium
SYSTEM
Dial pad touch tones
Touch sounds
Screen lock sound
Sound Switch

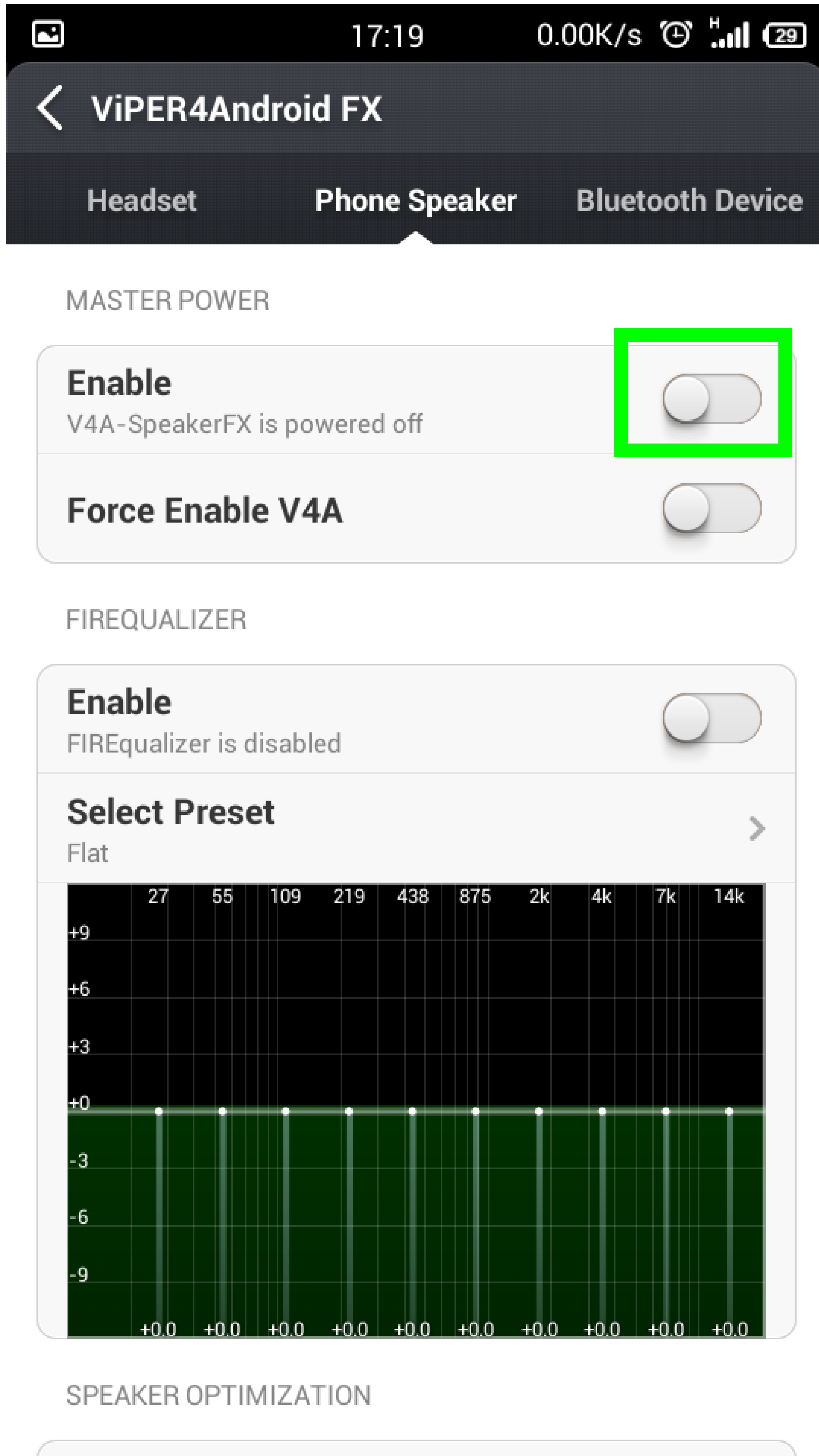
4. ViPER4Android FX 1

Silakan aktifkan jika agan perlu. Jika tidak, biarkan non-aktif.



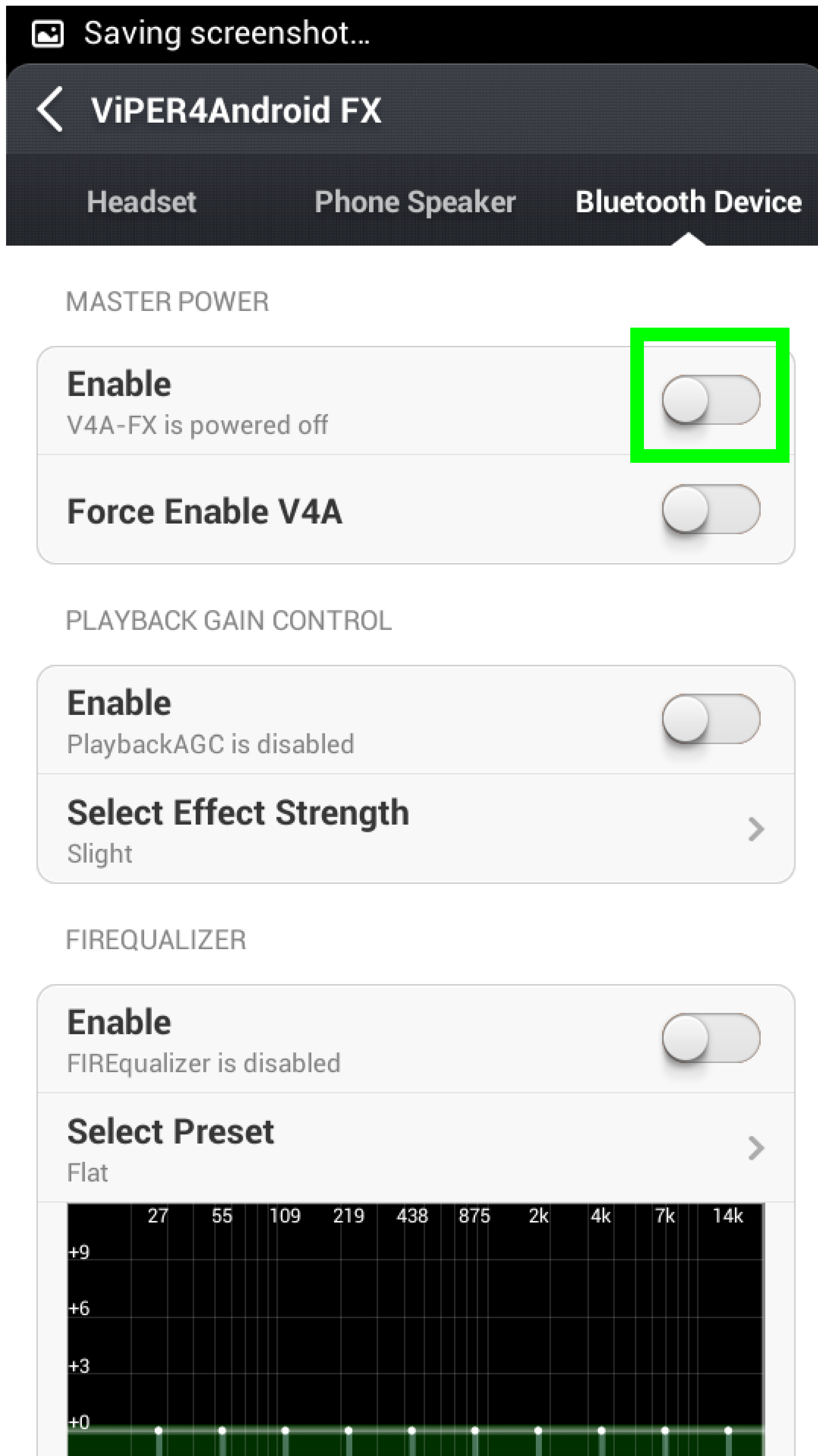
4. ViPER4Android FX 2

Silakan aktifkan jika agan perlu. Jika tidak, biarkan non-aktif.

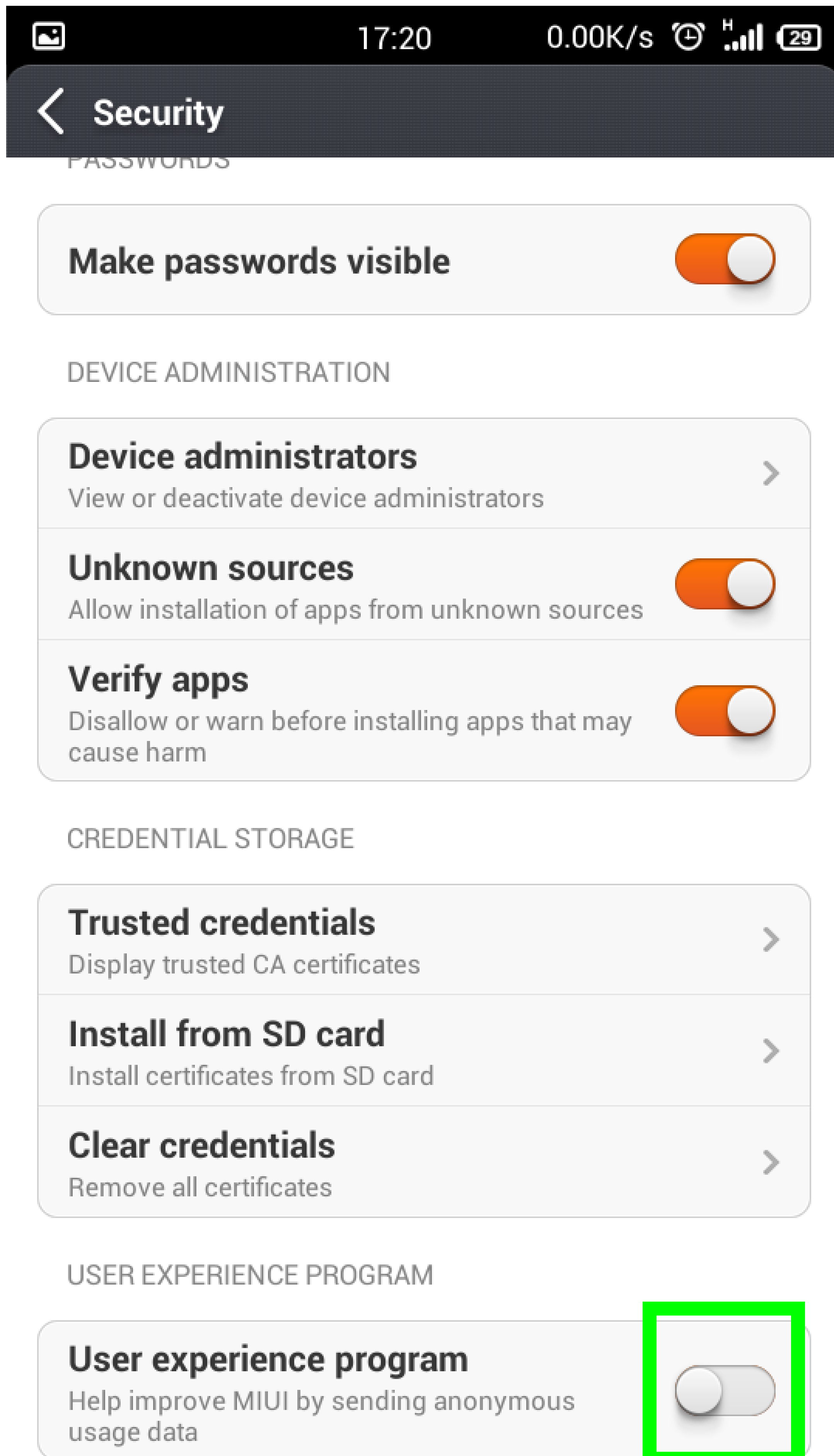


4. ViPER4Android FX 3

Silakan aktifkan jika agan perlu. Jika tidak, biarkan non-aktif.

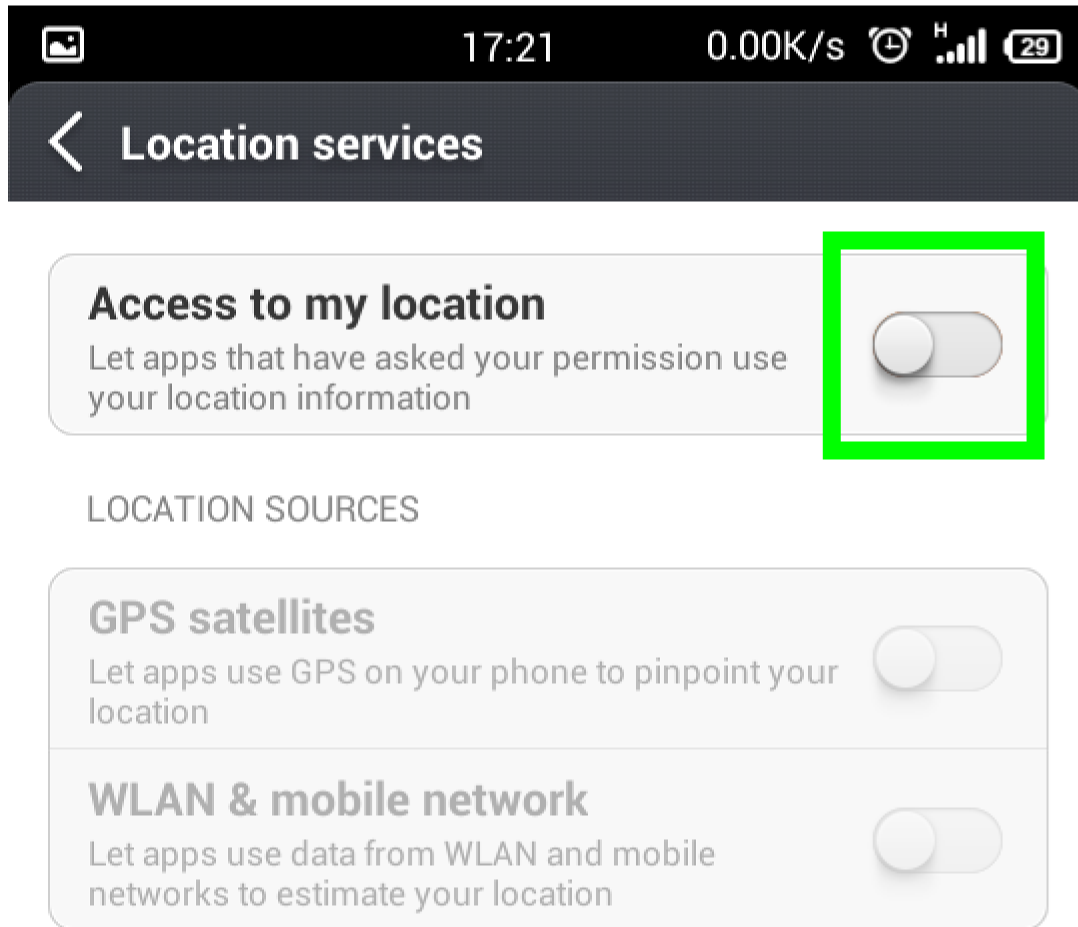


# 5. Security


17:20
0.00K/s
29
Security
PASSWORDS
Make passwords visible
DEVICE ADMINISTRATION
Device administrators
View or deactivate device administrators
Unknown sources
Allow installation of apps from unknown sources
Verify apps
Disallow or warn before installing apps that may cause harm
CREDENTIAL STORAGE
Trusted credentials
Display trusted CA certificates
Install from SD card
Install certificates from SD card
Clear credentials
Remove all certificates
USER EXPERIENCE PROGRAM
User experience program
Help improve MIUI by sending anonymous usage data

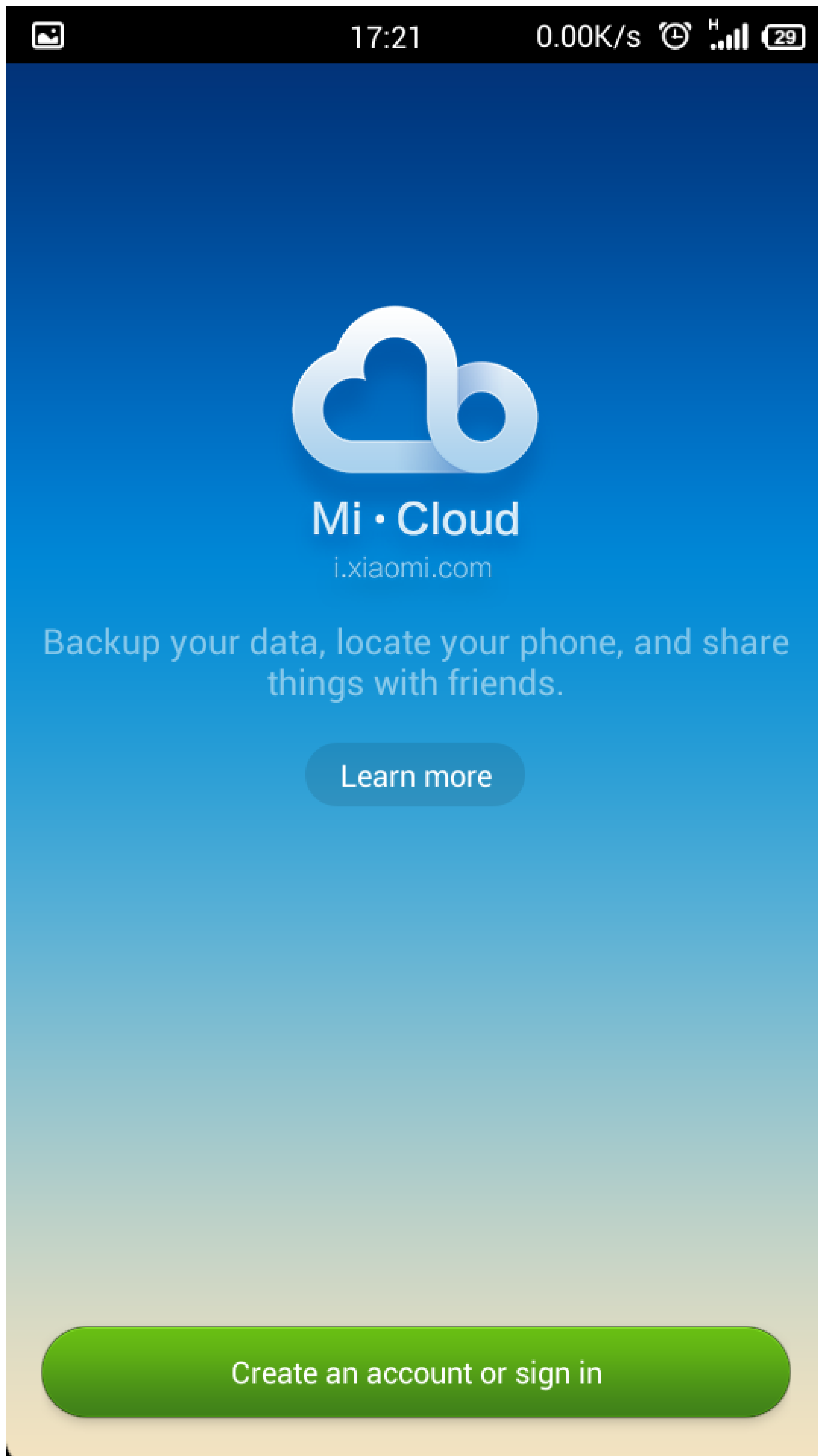
6. Location services

Aktifkan jika hendak pakai GPS. Sesudahnya, nonaktifkan lagi.



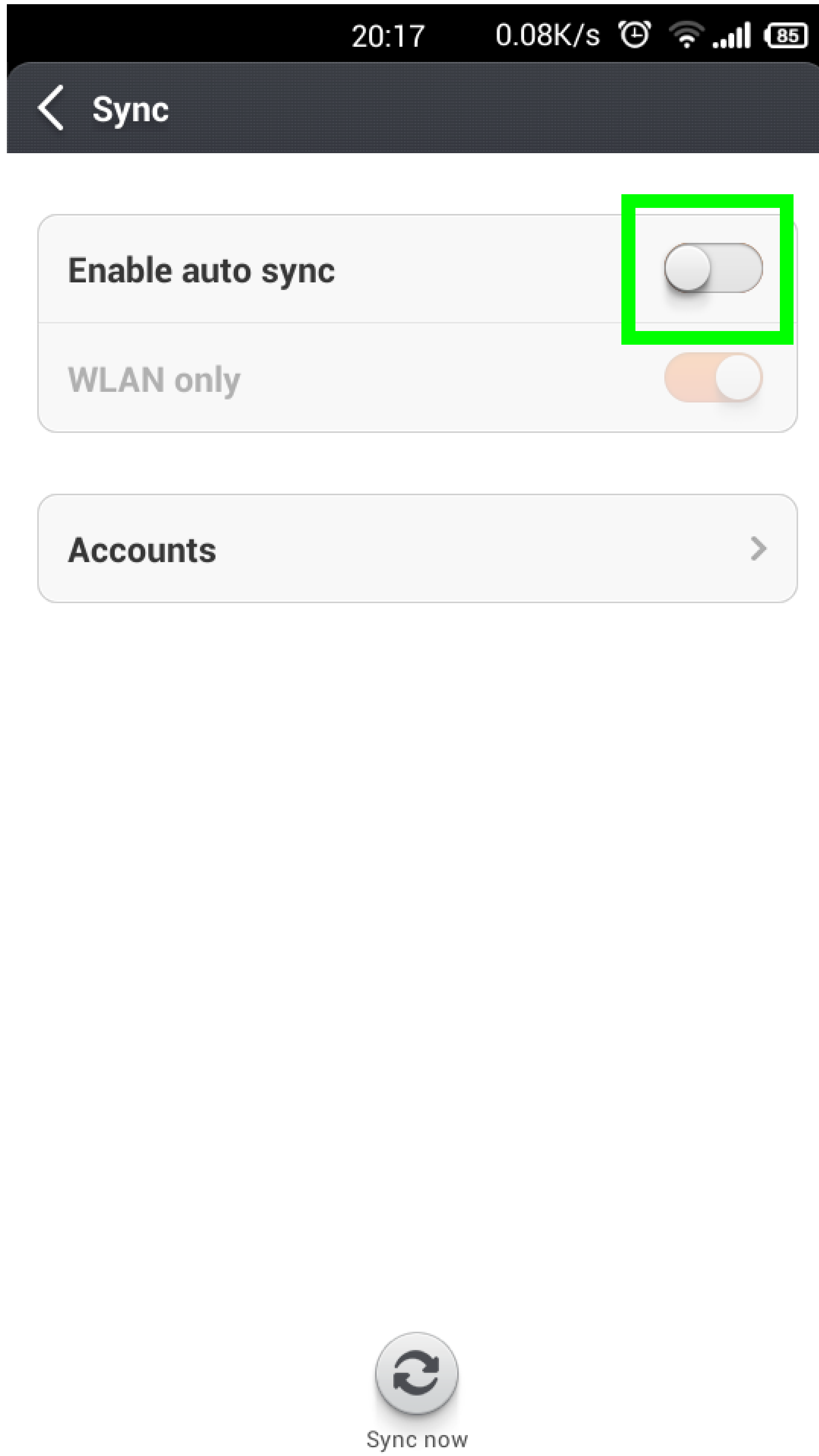
7. Micloud.

Direkomendasikan sign out, kecuali ada keperluan.



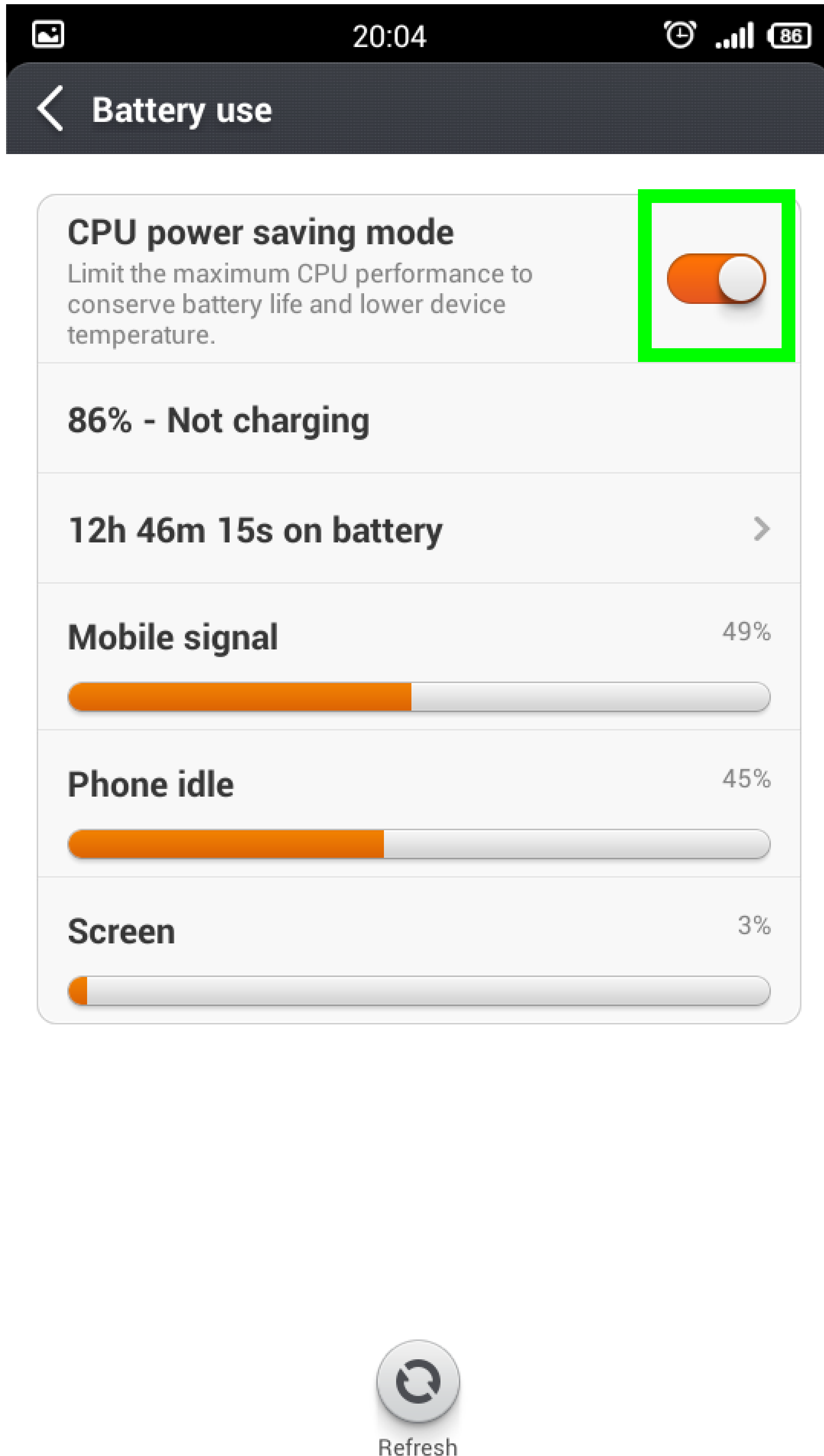
8. Sync

Sinkronisasi lebih baik secara manual.



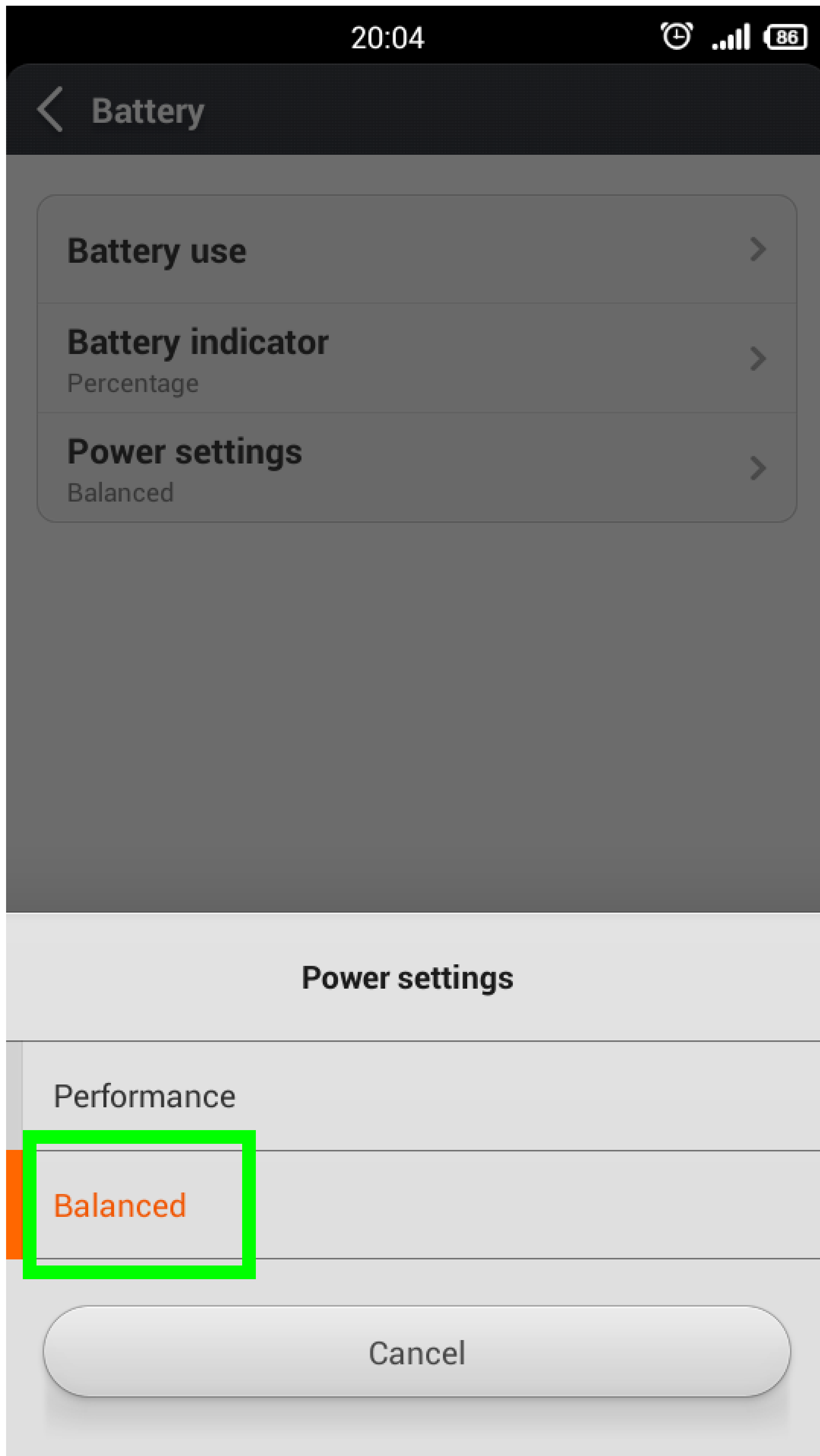
9. Battery 1

Direkomendasikan untuk mengaktifkan.



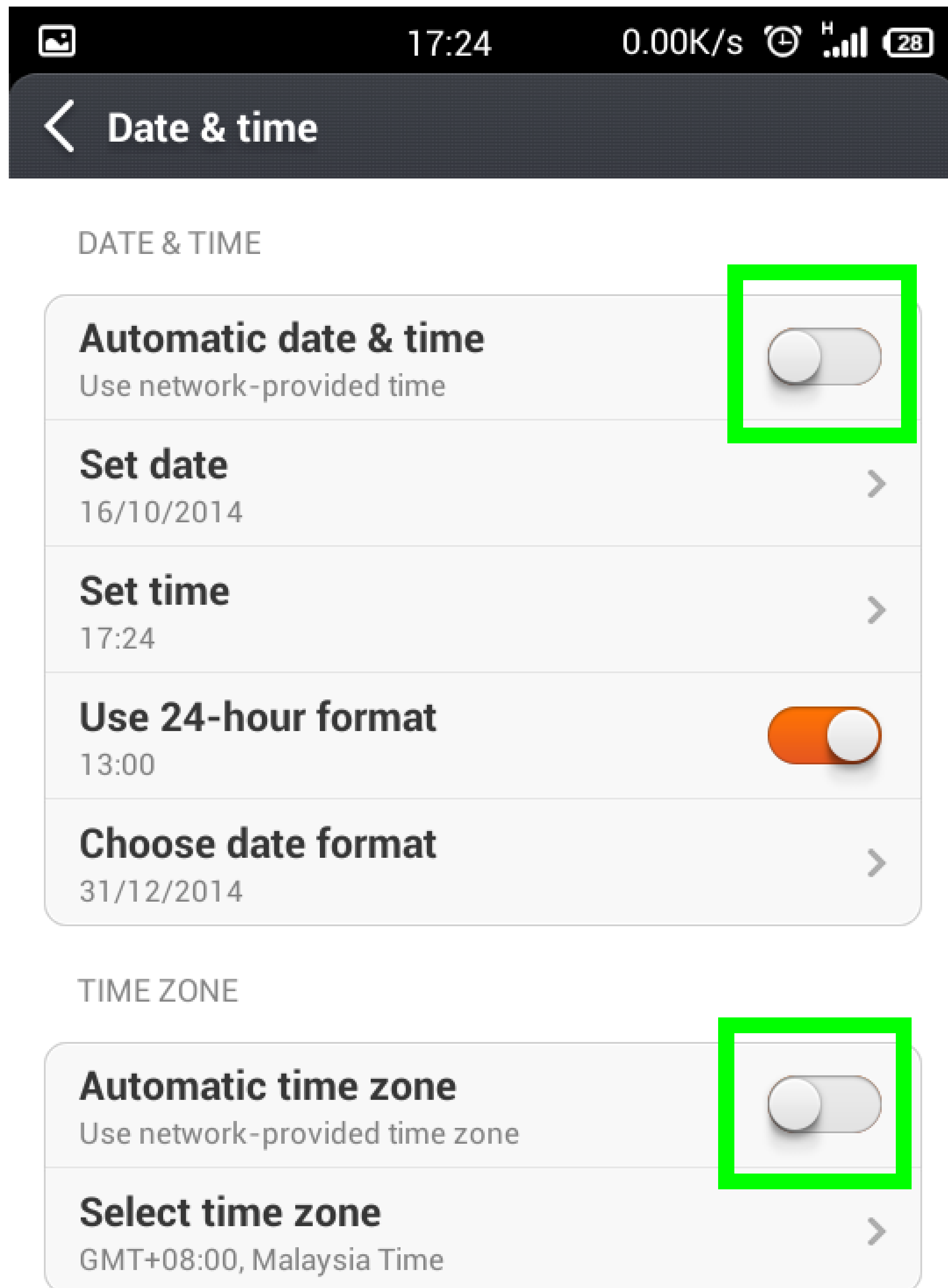
9. Battery 2

Direkomendasikan untuk memilih Balanced.

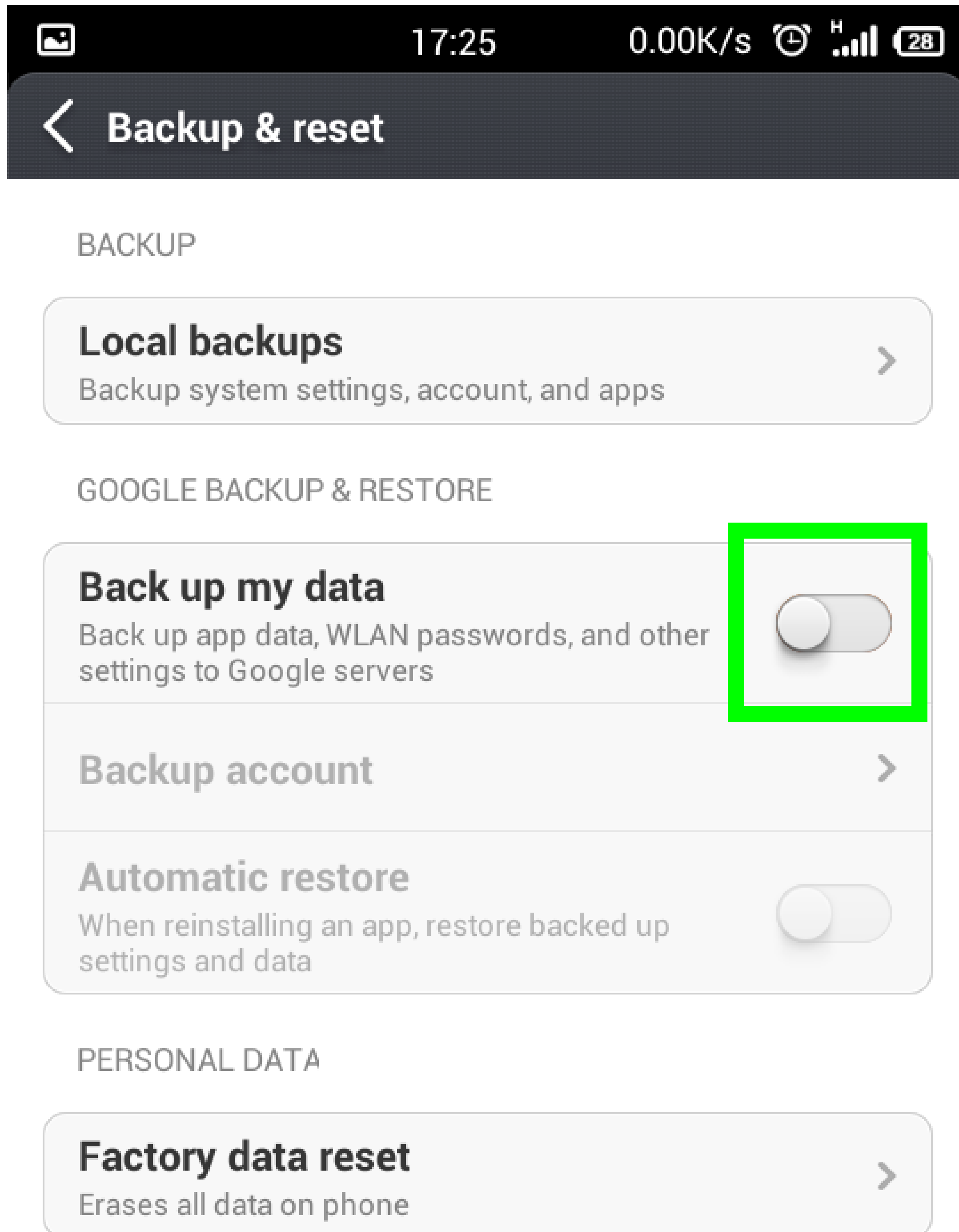


10. Date and Time

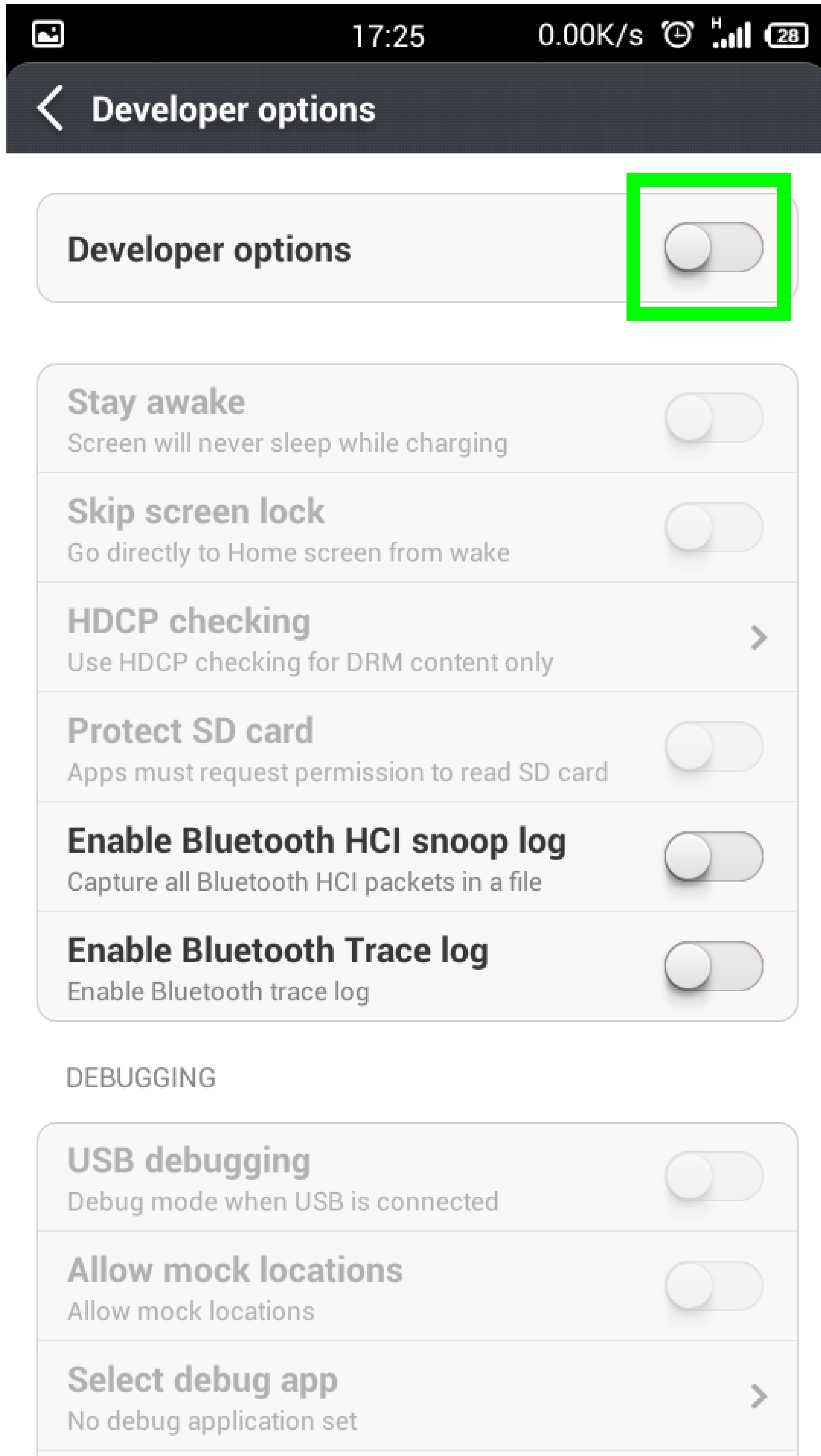
Tanggal dan waktu di-set secara manual saja.



11. Backup and Reset. Yang satu ini lebih baik non-aktif, kecuali agan ada keperluan, semisal Factory data reset.



12. Developer options. Untuk keperluan otak-atik seperti flash atau rooting, setting ini diaktifkan. Selebihnya, non-aktif.



13. Selesai.

Selamat, agan sudah mengenal pengaturan setting Android yang terkait dengan penghematan daya dan quota.

Inti dari pengenalan setting ini adalah kalo agan tidak perlu, maka agan tidak harus mengaktifkan. Ini perlu diingat, karena tidak sedikit setting bawaan (default) dari ROM bernilai “on”, alias aktif.

Keadaan aktif ini, boleh jadi adalah salah satu jawaban dari borosnya daya dan berkurangnya quota secara misterius. :)

# PENUTUP

Akhirnyaa ... selesai juga.

Ane senang agan masih berkenan menyimak sampai sejauh ini. Terima kasih.

Sudah lama ane banyak mengambil manfaat dari pengetahuan yang agan-agan bagi di berbagai forum dan grup. Karenanya, tutorial sederhana ini dimaksudkan sebagai kontribusi balik bagi agan-agan, bagi komunitas.

Terakhir, sebagaimana tutorial ini disusun dengan waktu dan pengetahuan yang terbatas, tentunya ia tidak lepas dari kesalahan. Ane mohon dimaklumi, ya gan.

Jangan lupa untuk menengok **halaman terakhir** ya.

Terima kasih.

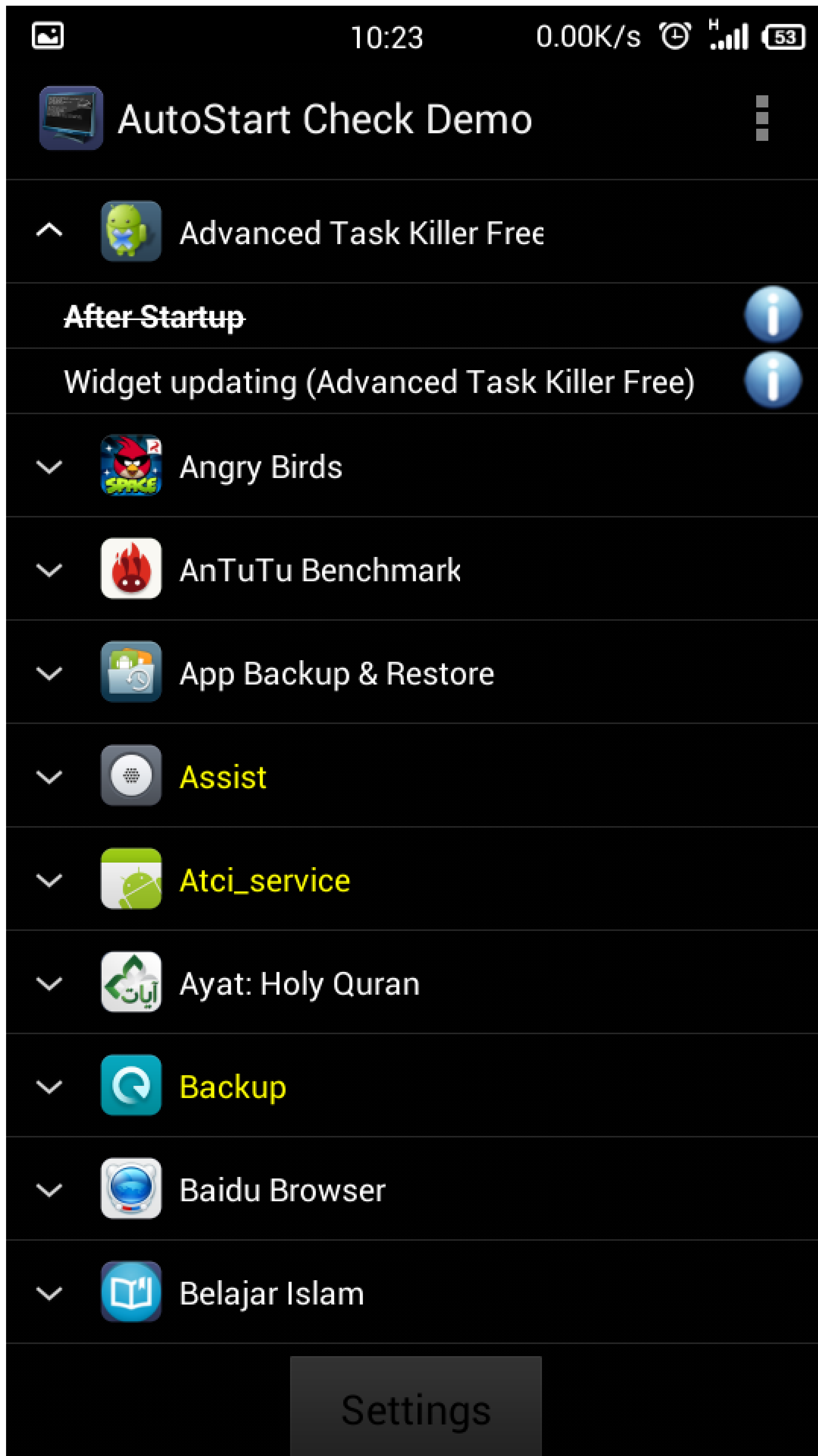
Sampai jumpa di lain kesempatan!

# L A M P I R A N

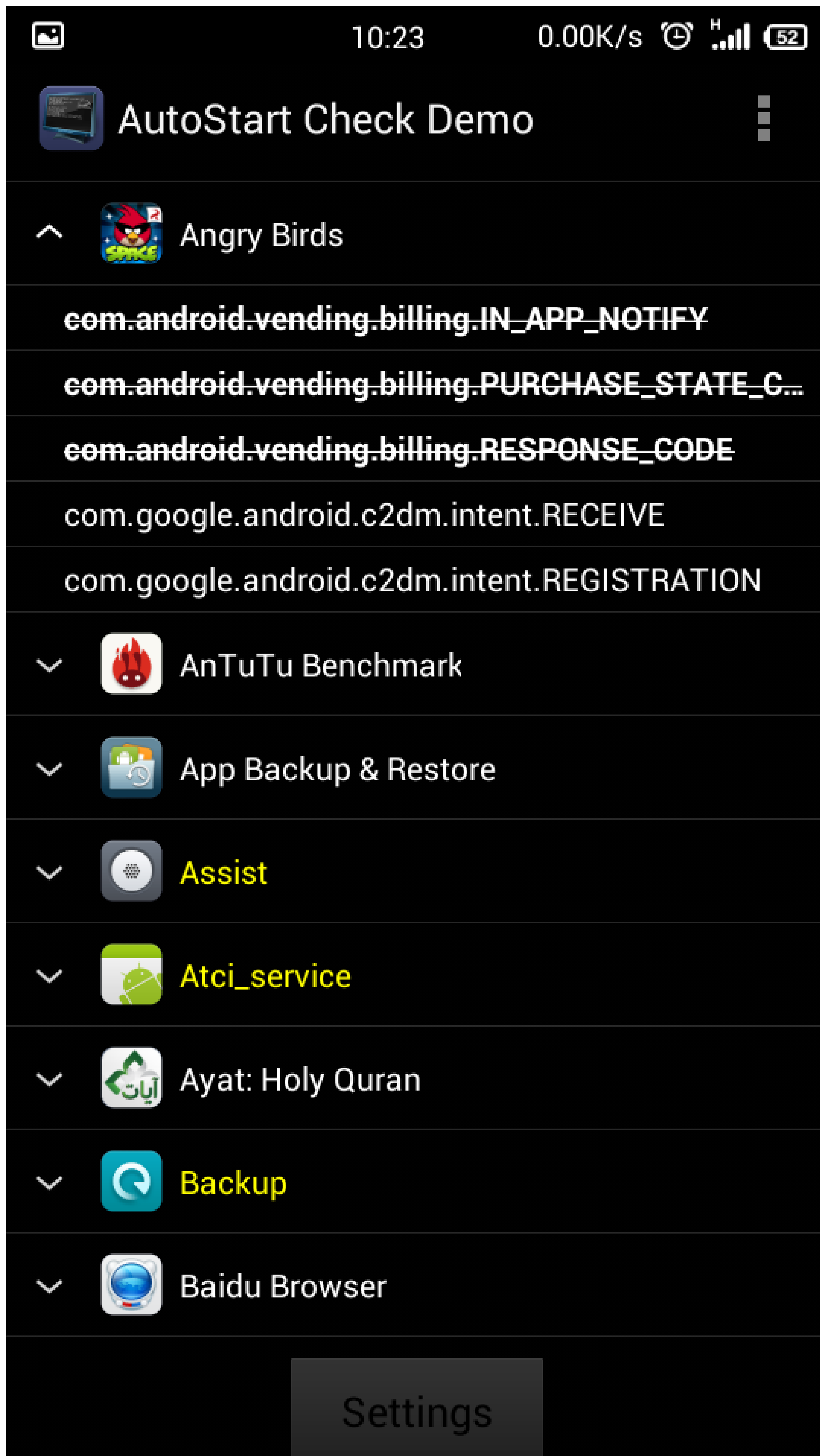
# SCREENSHOT ASC

1. Advanced Task Killer Free
2. Angry Birds
3. AnTuTu Benchmark
4. App Backup & Restore
5. Ayat Holy Quran
6. Backup
7. Baidu Browser
8. Belajar Islam
9. Bluetooth
10. Browser
11. Calendar MIUI (hlm. 1/2)
11. Calendar MIUI (hlm. 2/2)
12. Calendar
13. Camera
14. CM Browser
15. Data Usage
16. Download Manager
17. Downloads
18. Drive
19. Dropbox
20. ES File Explorer
21. Explorer
22. FM Radio
23. Gallery (hlm. 1/2)
23. Gallery (hlm. 2/2)
24. Games
25. Gmail (hlm. 1/2)
25. Gmail (hlm. 2/2)
26. Google Contacs Sync
27. Google Play services (hlm. 1/5)
27. Google Play services (hlm. 2/5)
27. Google Play services (hlm. 3/5)
27. Google Play services (hlm. 4/5)
27. Google Play services (hlm. 5/5)
28. Google Search (hlm. 1/3)
28. Google Search (hlm. 2/3)
28. Google Search (hlm. 3/3)
29. Google Service Framewrok (hlm. 1/2)
29. Google Service Framewrok (hlm. 2/2)
30. Google Text-to-speech Engine
31. Keep
32. Link2SD
33. Lumosity
34. Mail
35. Maps
36. Market
37. Mi Cloud framework
38. Music (hlm. 1/2)
38. Music (hlm. 2/2)
39. MusicFX
40. Notes
41. OvuView (hlm. 1/2)
41. OvuView (hlm. 2/2)
42. Payment service
43. Pico TTS
44. Puzzles with Matches
45. Recorder
46. Report Bug
47. Search
48. Skype
49. SMS Backup and Restore
50. SuperSU
51. Sync with Mi Cloud
52. Themes
53. Transfer
54. Updater
55. Video
56. ViPER4Android FX
57. Voice Search
58. Weather
59. Weather Provider
60. WPF Office (Kingsoft Office)
61. YouTube

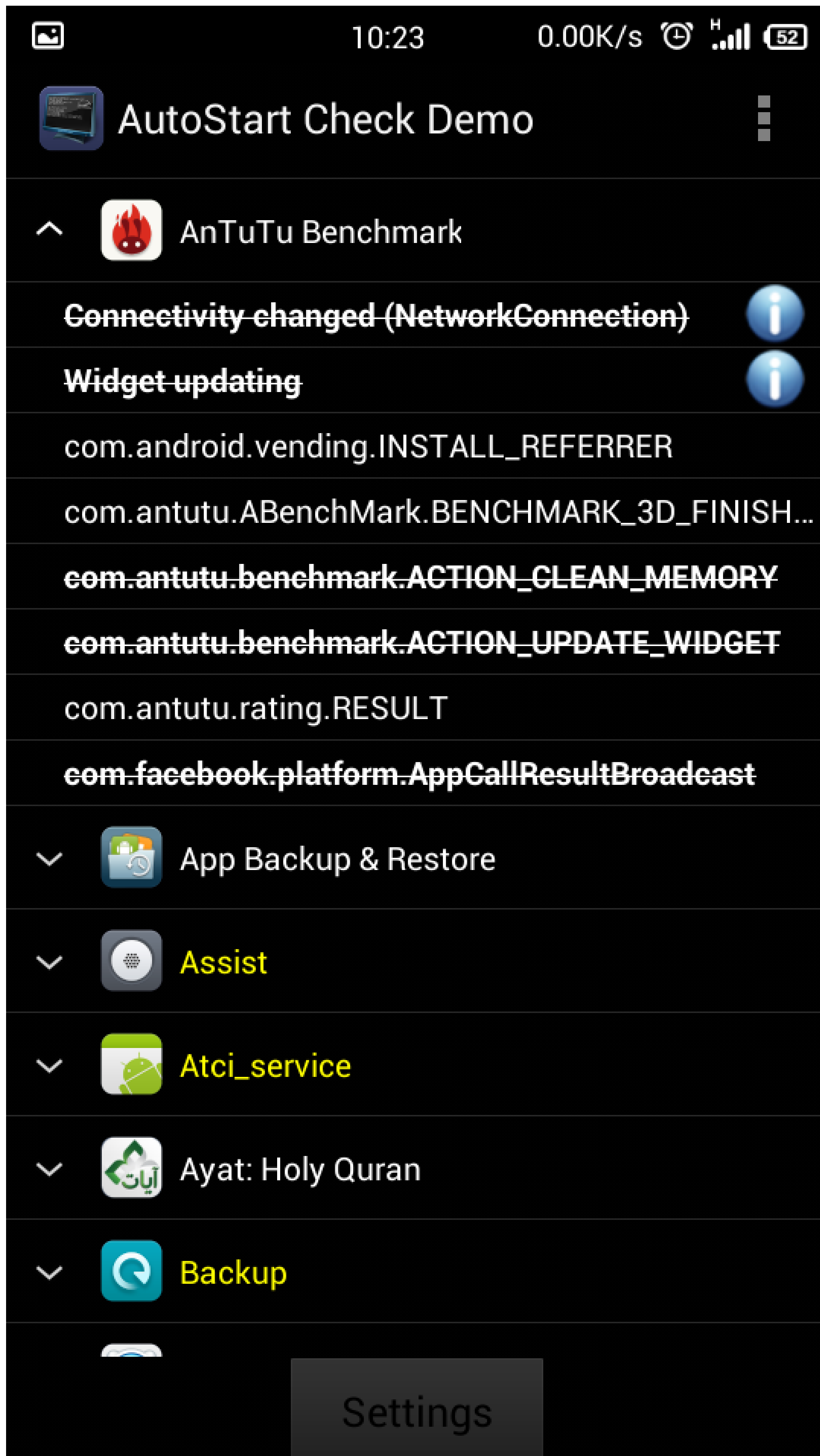
1. Advanced Task Killer Free



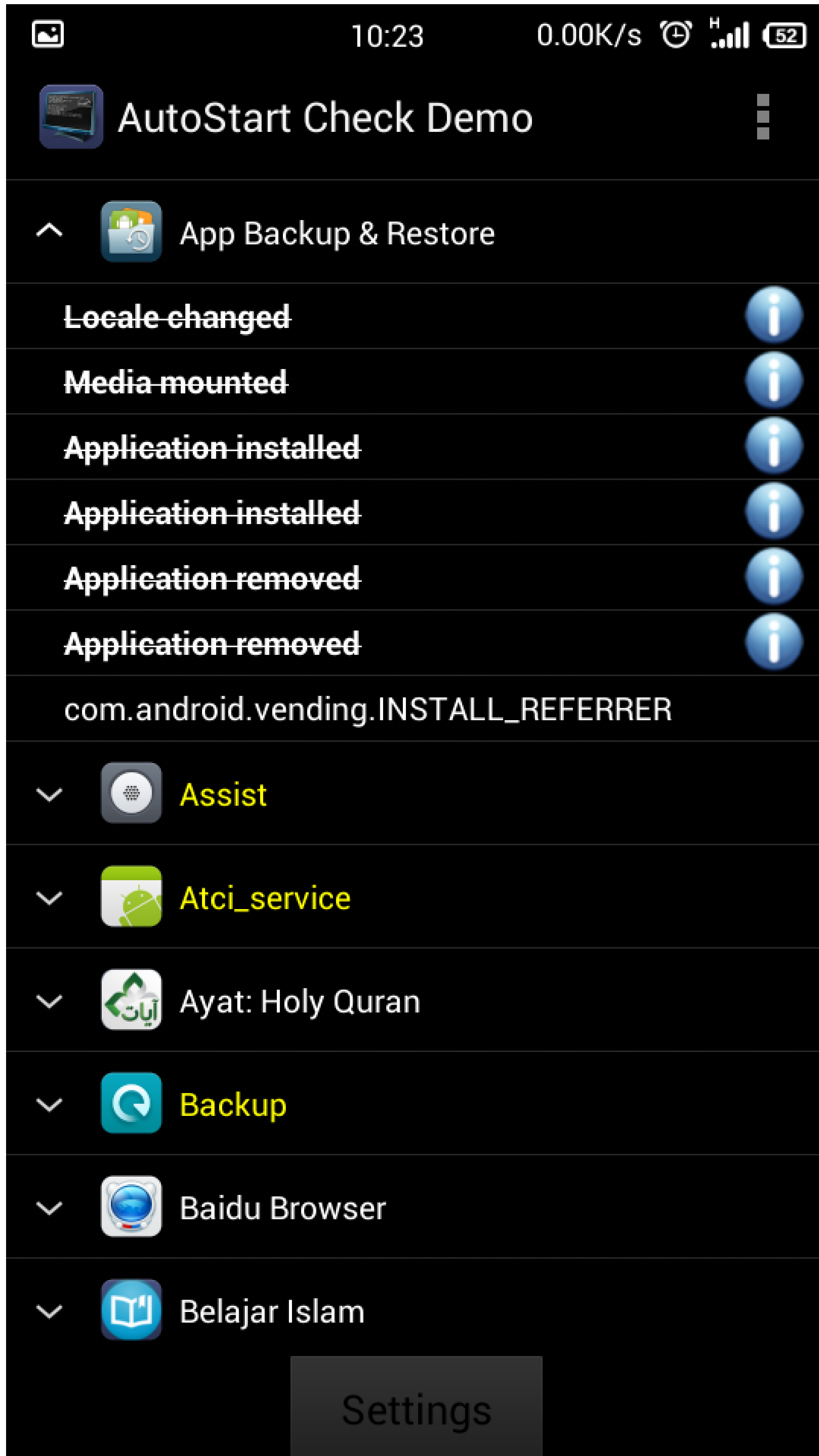
2. Angry Birds



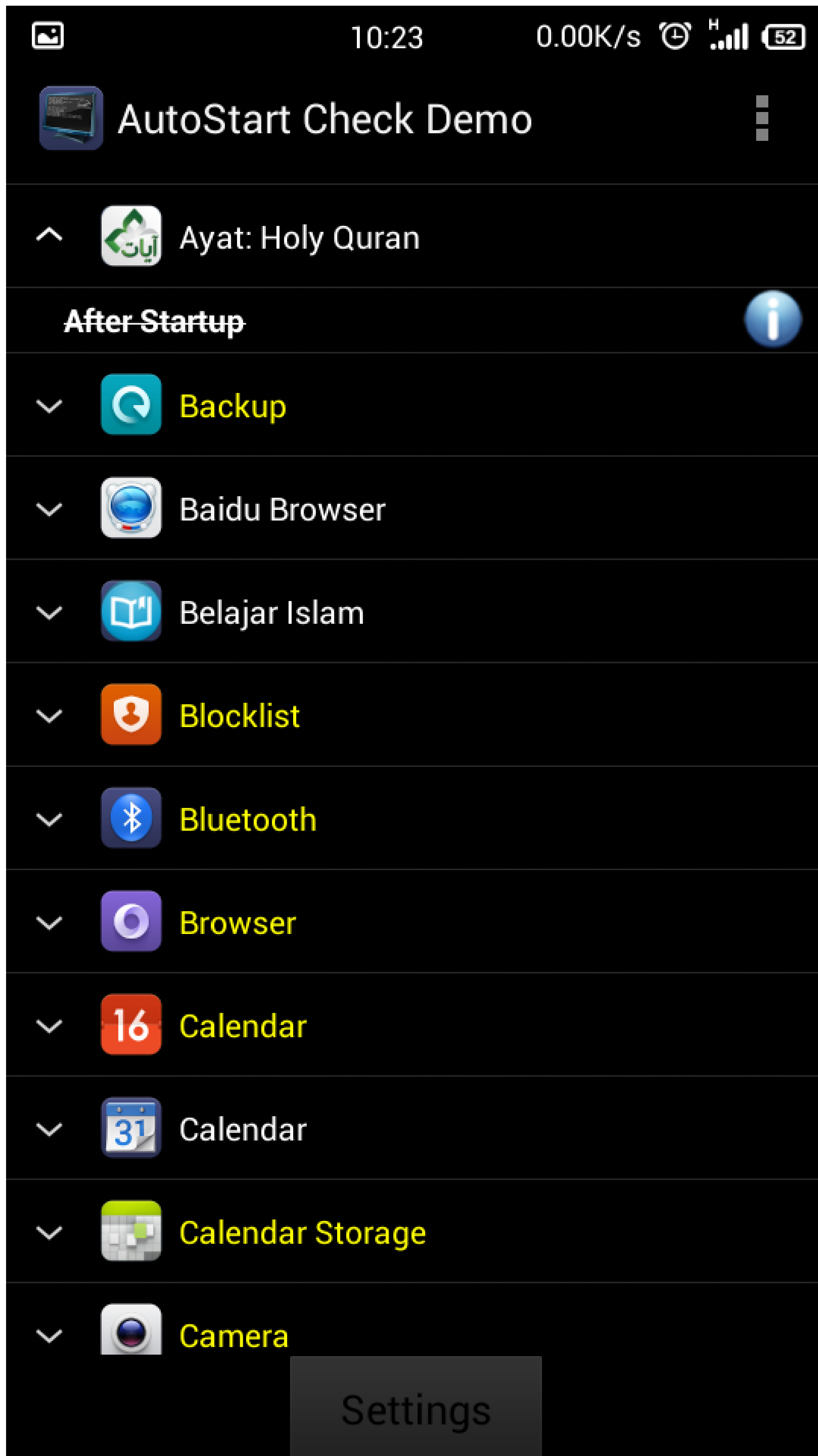
3. AnTuTu Benchmark



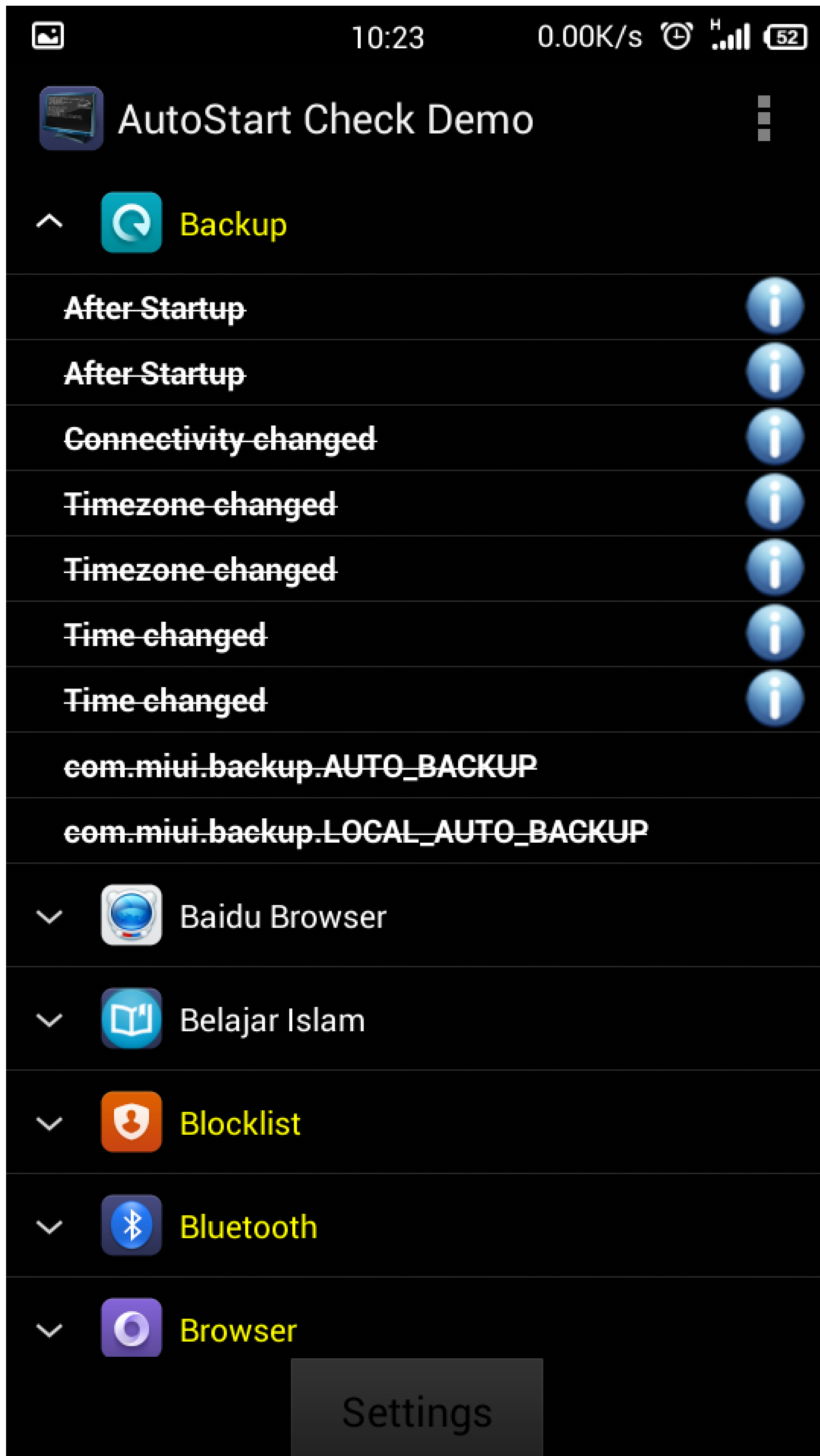
4. App Backup & Restore



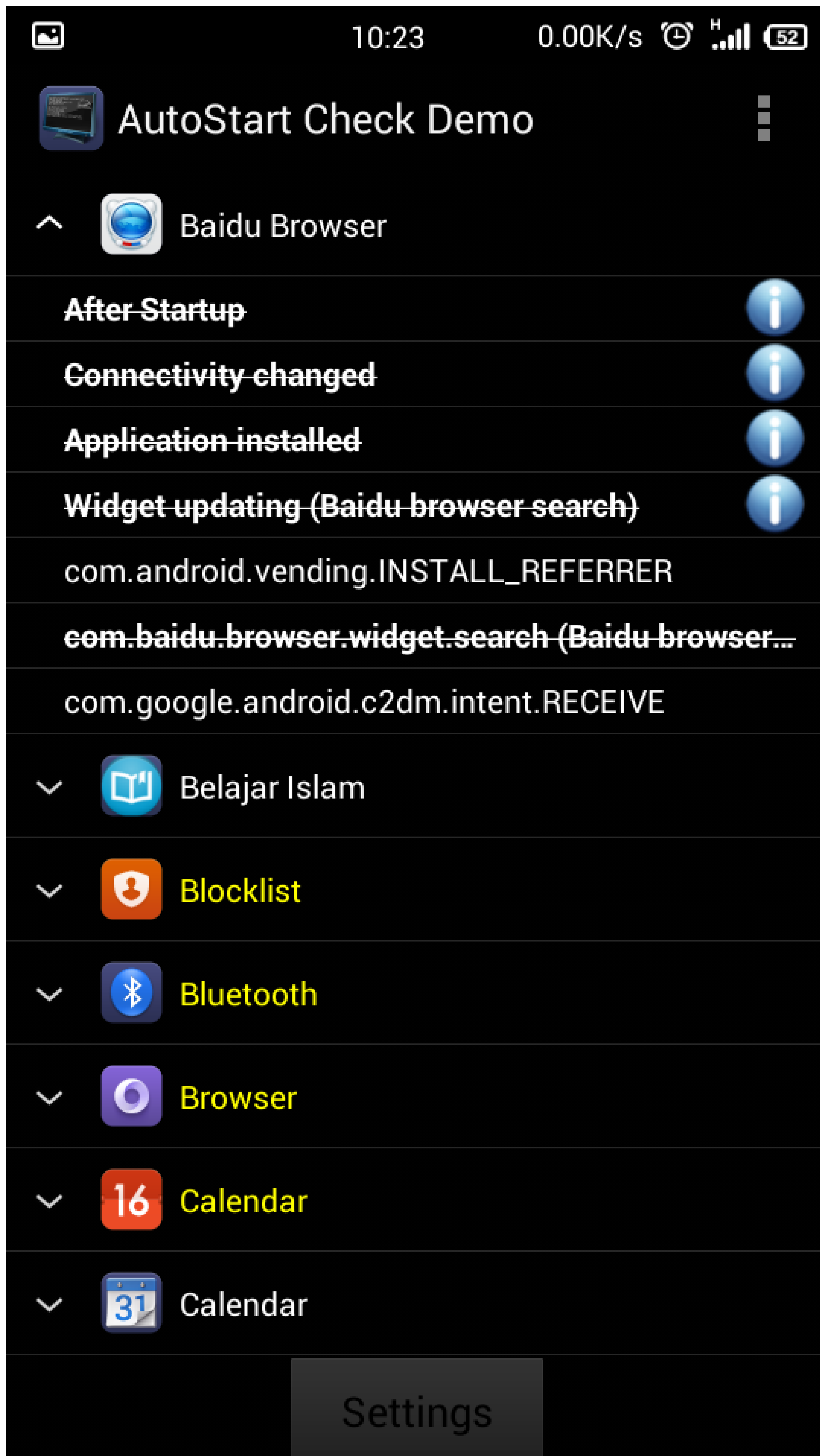
# 5. Ayat Holy Quran



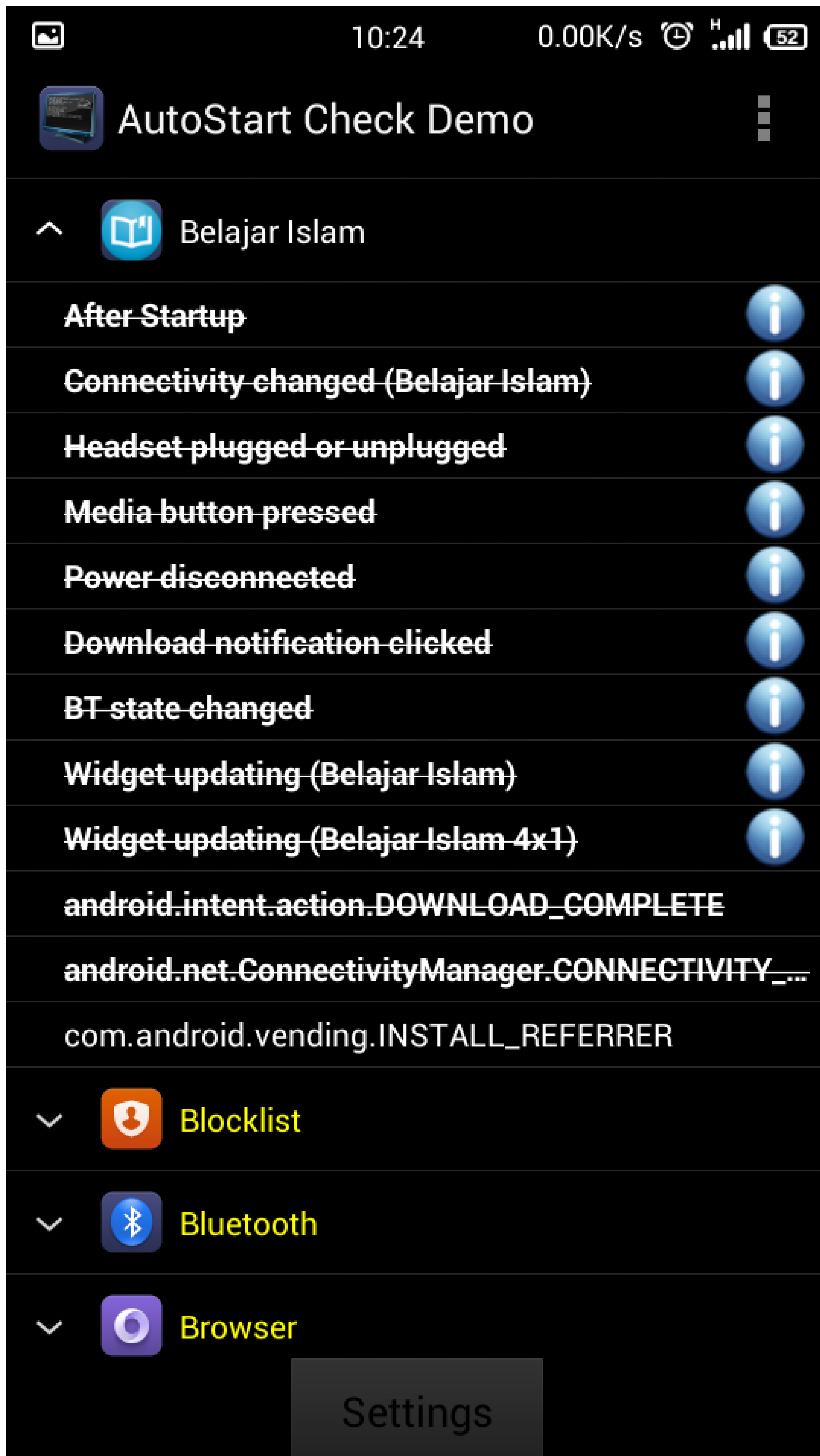
6. Backup


10:23
0.00K/s
52
AutoStart Check Demo
Backup
After Startup
After Startup
Connectivity changed
Timezone changed
Timezone changed
Time changed
Time changed
com.miui.backup.AUTO_BACKUP
com.miui.backup.LOCAL_AUTO_BACKUP
Baidu Browser
Belajar Islam
Blocklist
Bluetooth
Browser
Settings

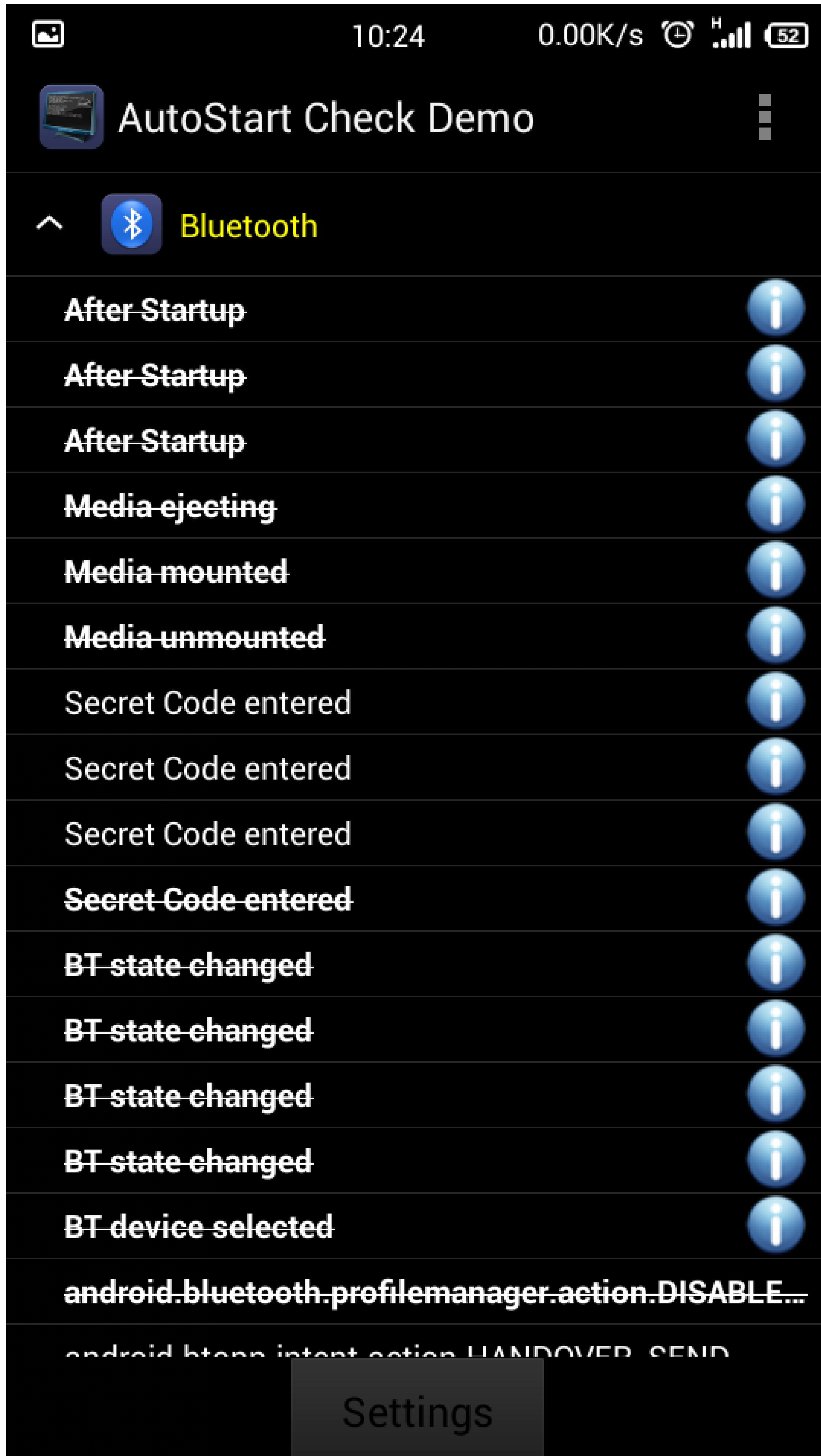
7. Baidu Browser



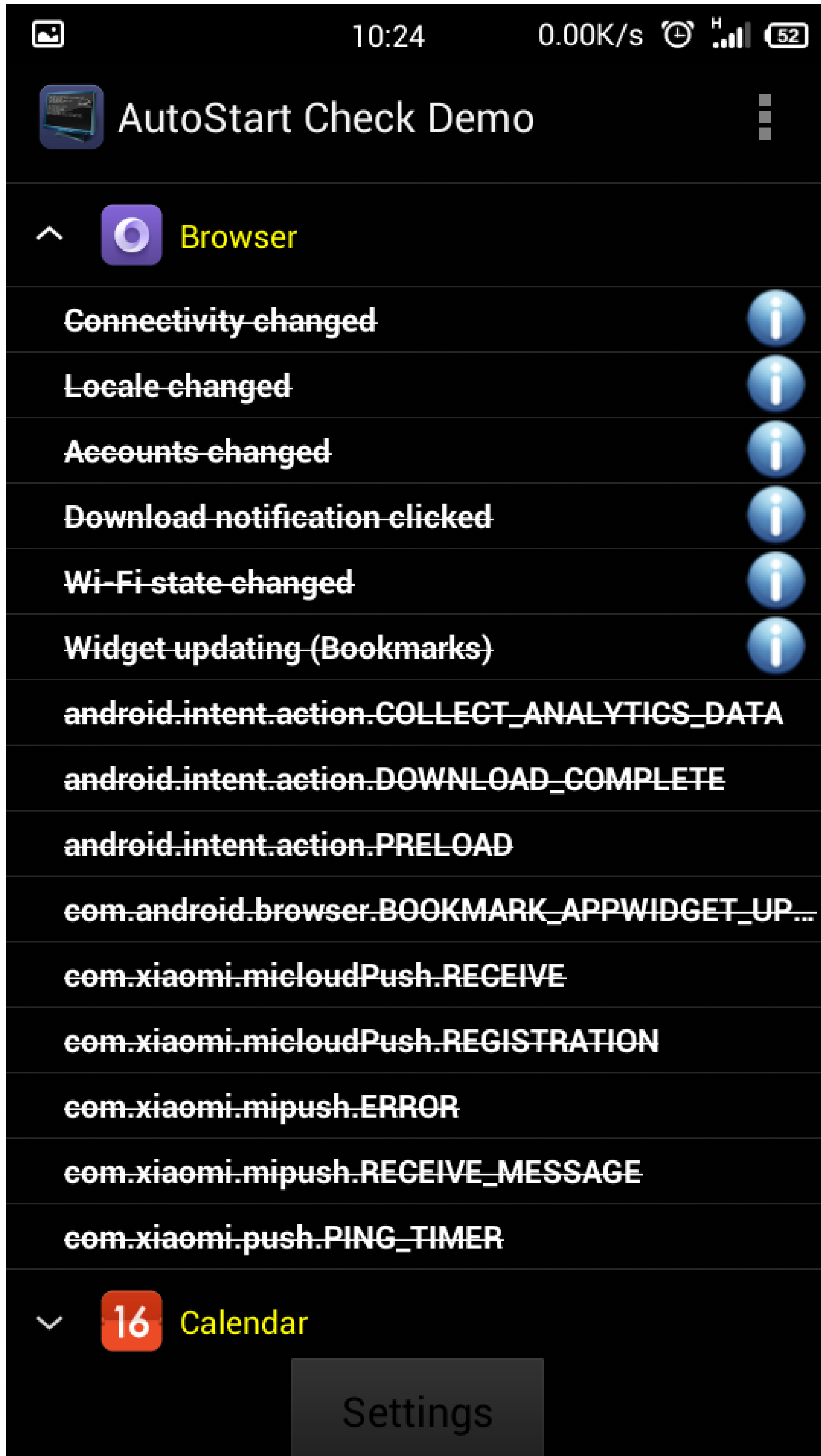
8. Belajar Islam



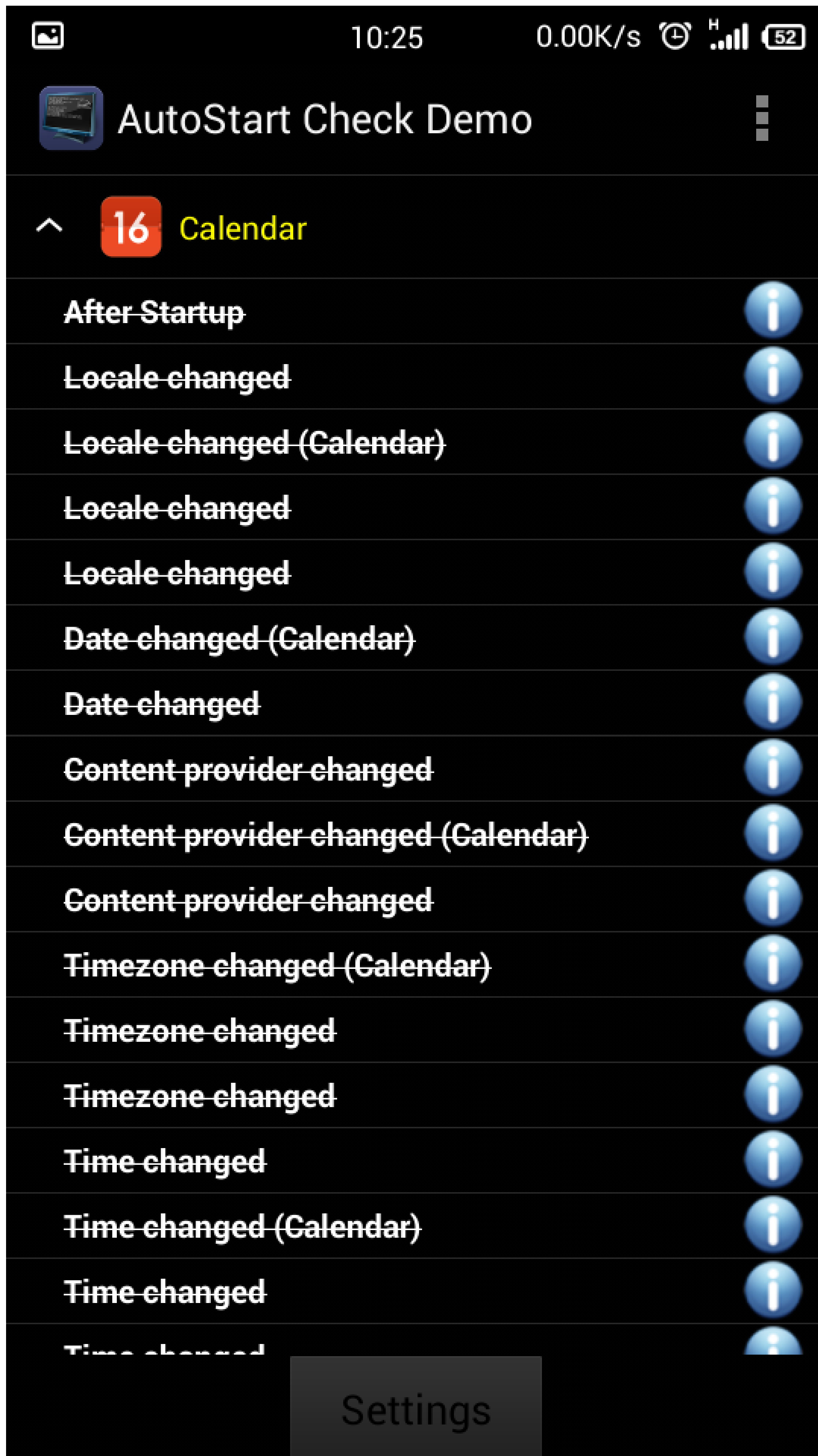
# 9. Bluetooth


10:24
0.00K/s
52
AutoStart Check Demo
Bluetooth
After Startup
After Startup
After Startup
Media ejecting
Media mounted
Media unmounted
Secret Code entered
Secret Code entered
Secret Code entered
Secret Code entered
BT state changed
BT state changed
BT state changed
BT state changed
BT device selected
android.bluetooth.profilemanager.action.DISABLE...
Settings

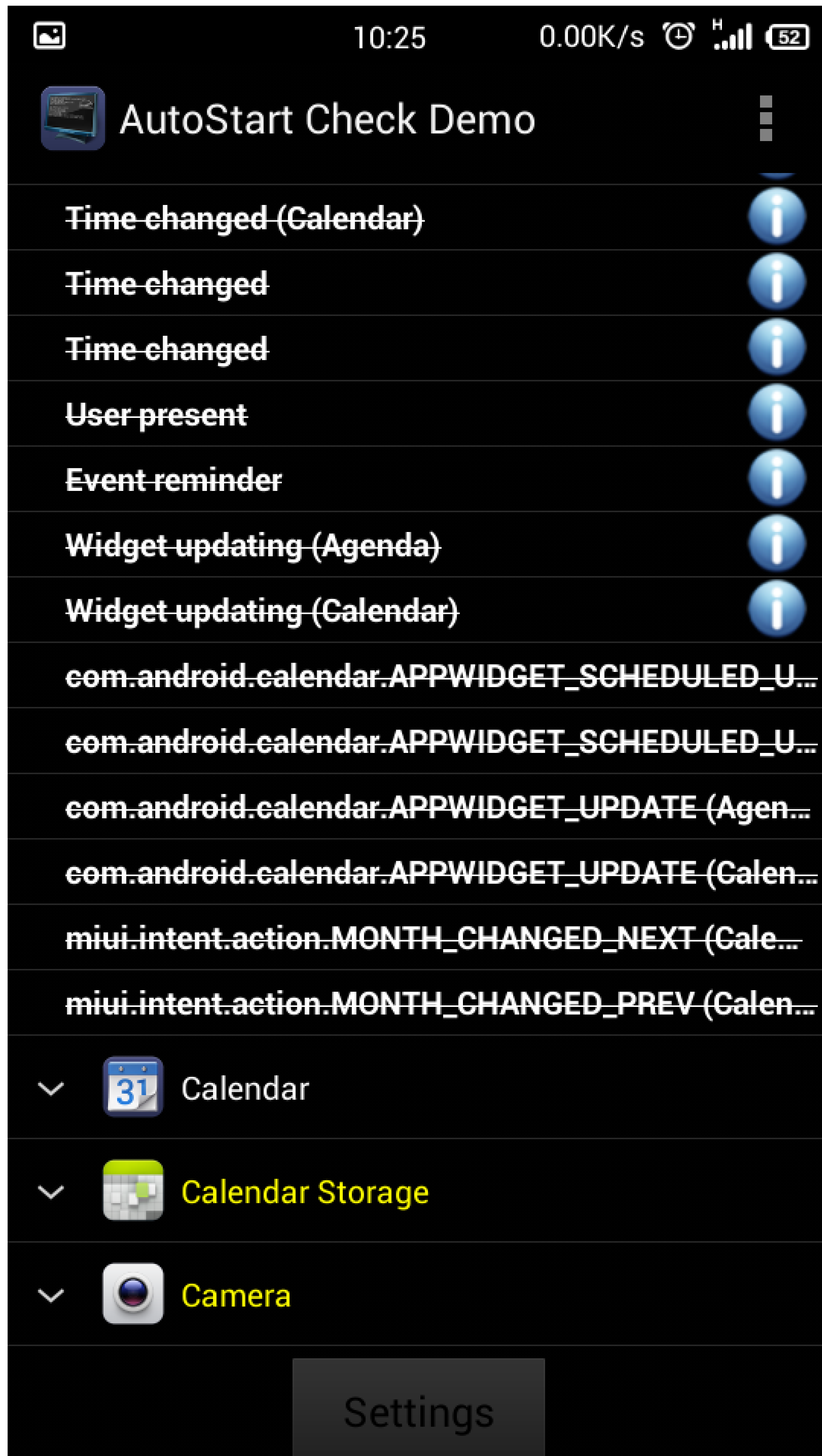
10. Browser


10:24
0.00K/s
52
AutoStart Check Demo
Browser
Connectivity changed
Locale changed
Accounts changed
Download notification clicked
Wi-Fi state changed
Widget updating (Bookmarks)
android.intent.action.COLLECT_ANALYTICS_DATA
android.intent.action.DOWNLOAD_COMPLETE
android.intent.action.PRELOAD
com.android.browser.BOOKMARK_APPWIDGET_UP...
com.xiaomi.micloudPush.RECEIVE
com.xiaomi.micloudPush.REGISTRATION
com.xiaomi.mipush.ERROR
com.xiaomi.mipush.RECEIVE_MESSAGE
com.xiaomi.push.PING_TIMER
16
Calendar
Settings

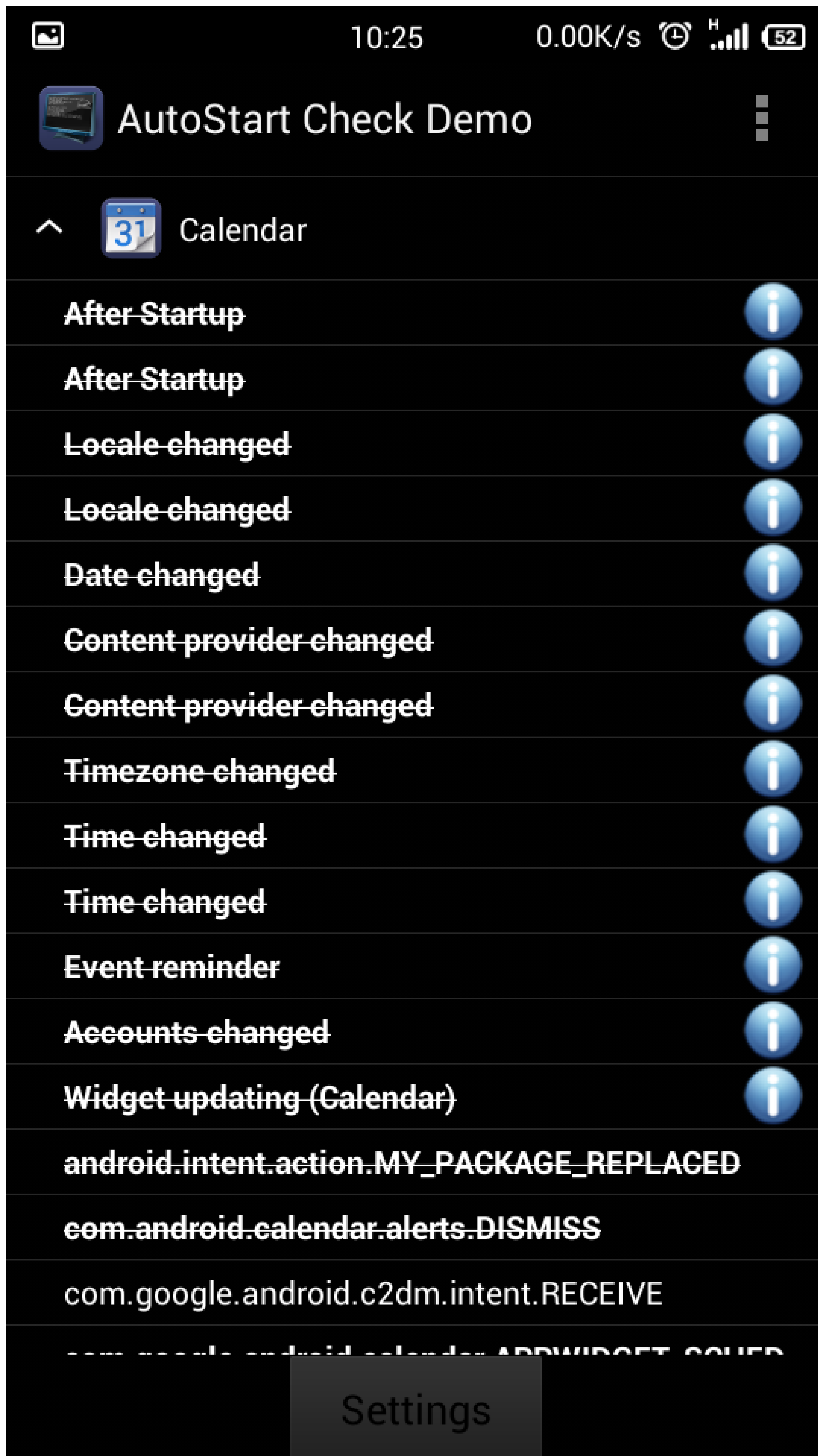
11. Calendar MIUI (hlm. 1/2)



Calendar MIUI (hlm. 2/2)

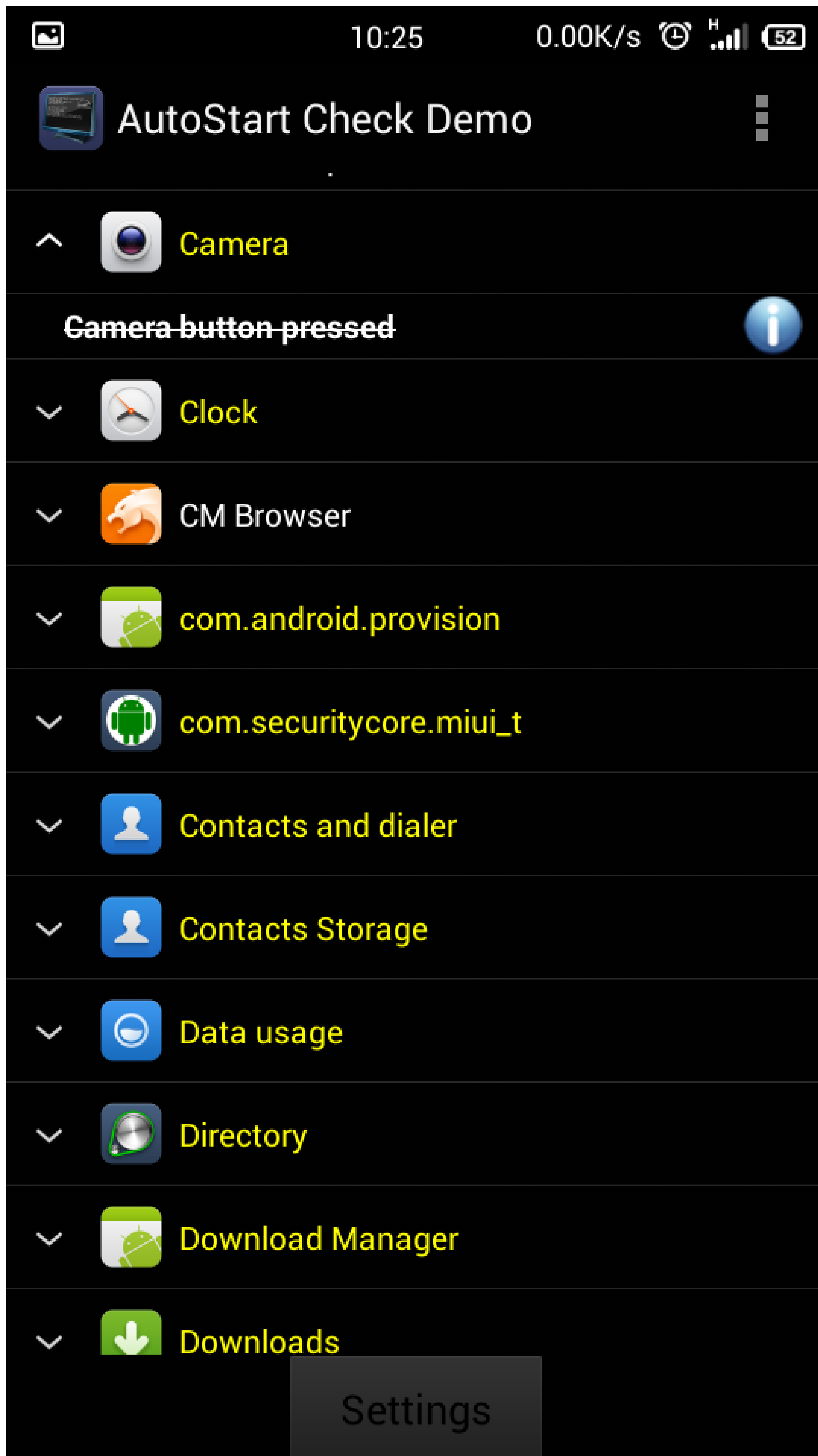


12. Calendar

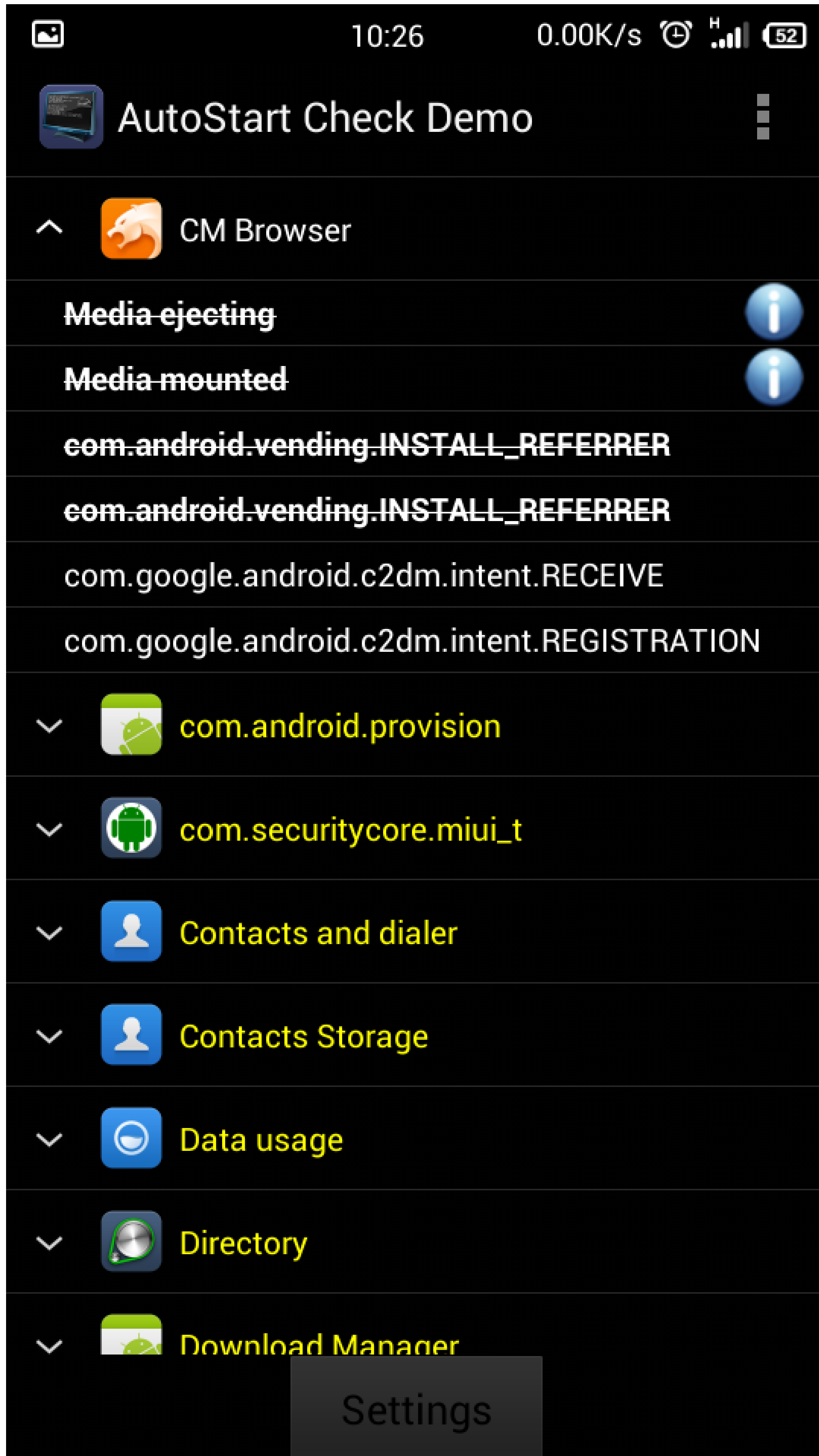


10:25
0.00K/s
52
AutoStart Check Demo
Calendar
After Startup
After Startup
Locale changed
Locale changed
Date changed
Content provider changed
Content provider changed
Timezone changed
Time changed
Time changed
Event reminder
Accounts changed
Widget updating (Calendar)
android.intent.action.MY_PACKAGE_REPLACED
com.android.calendar.alerts.DISMISS
com.google.android.c2dm.intent.RECEIVE
Settings

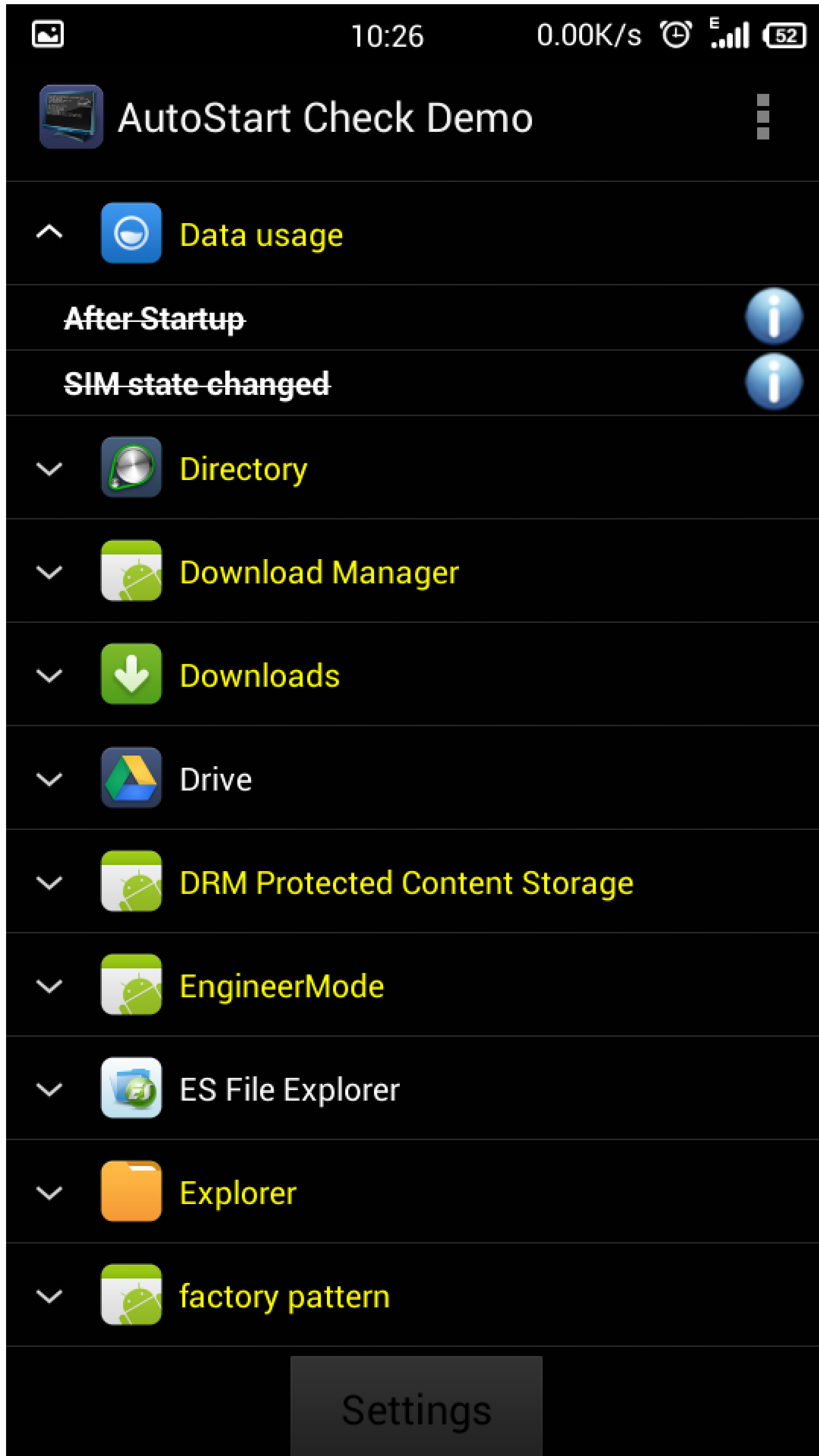
13. Camera


10:25
0.00K/s
52
AutoStart Check Demo
Camera
Camera button pressed
Clock
CM Browser
com.android.provision
com.securitycore.miui_t
Contacts and dialer
Contacts Storage
Data usage
Directory
Download Manager
Downloads
Settings

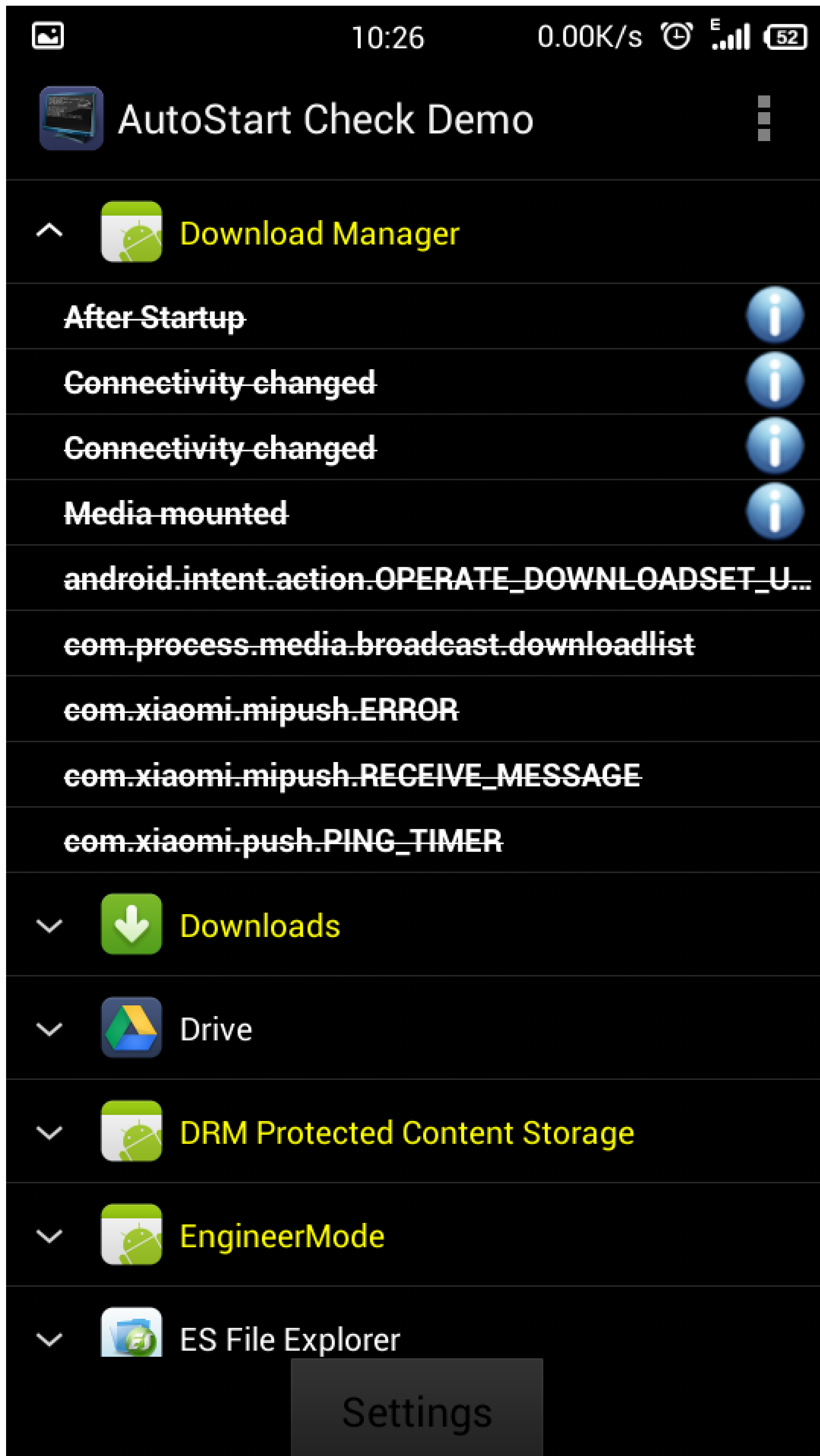
14. CM Browser



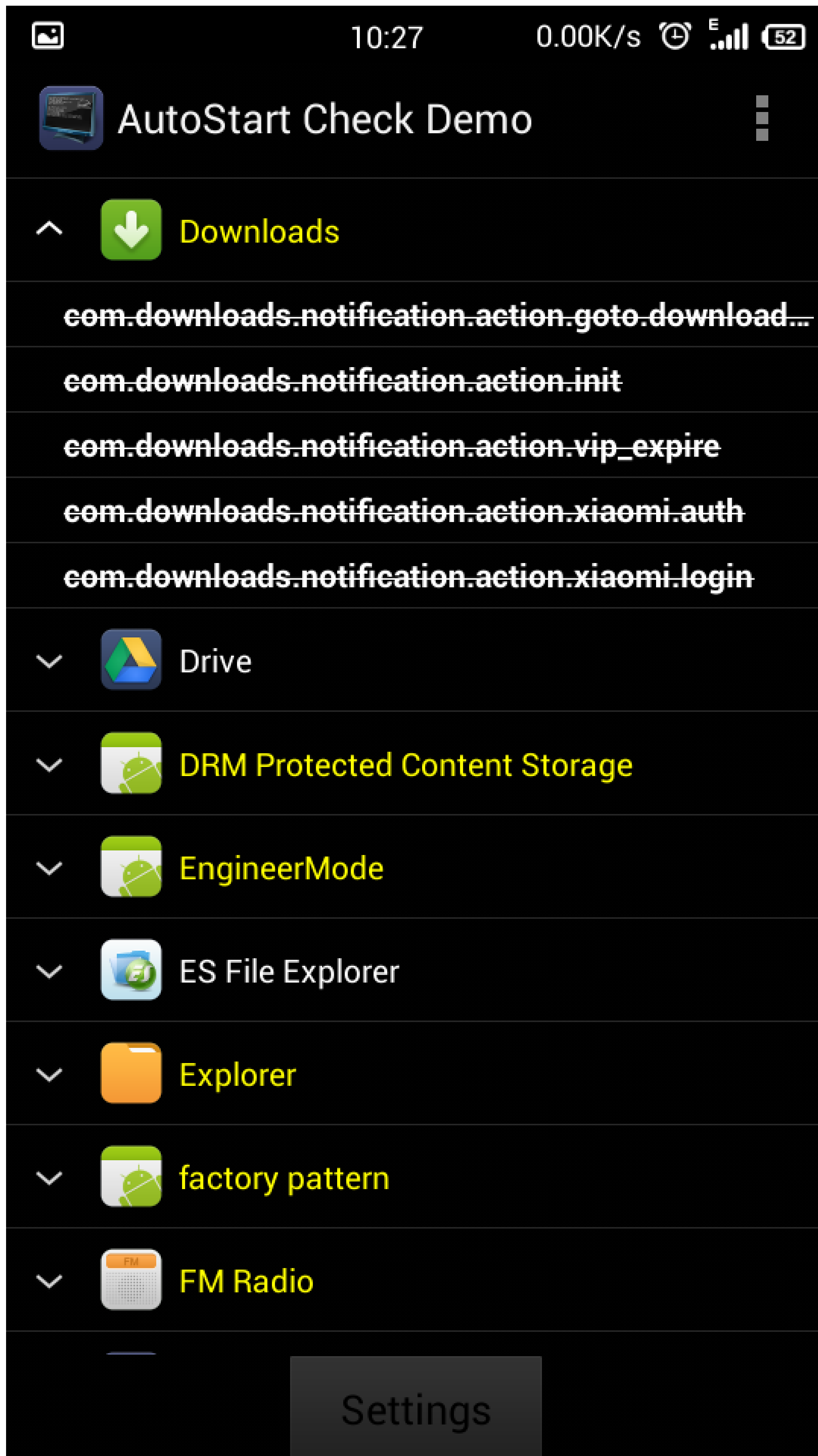
# 15. Data Usage



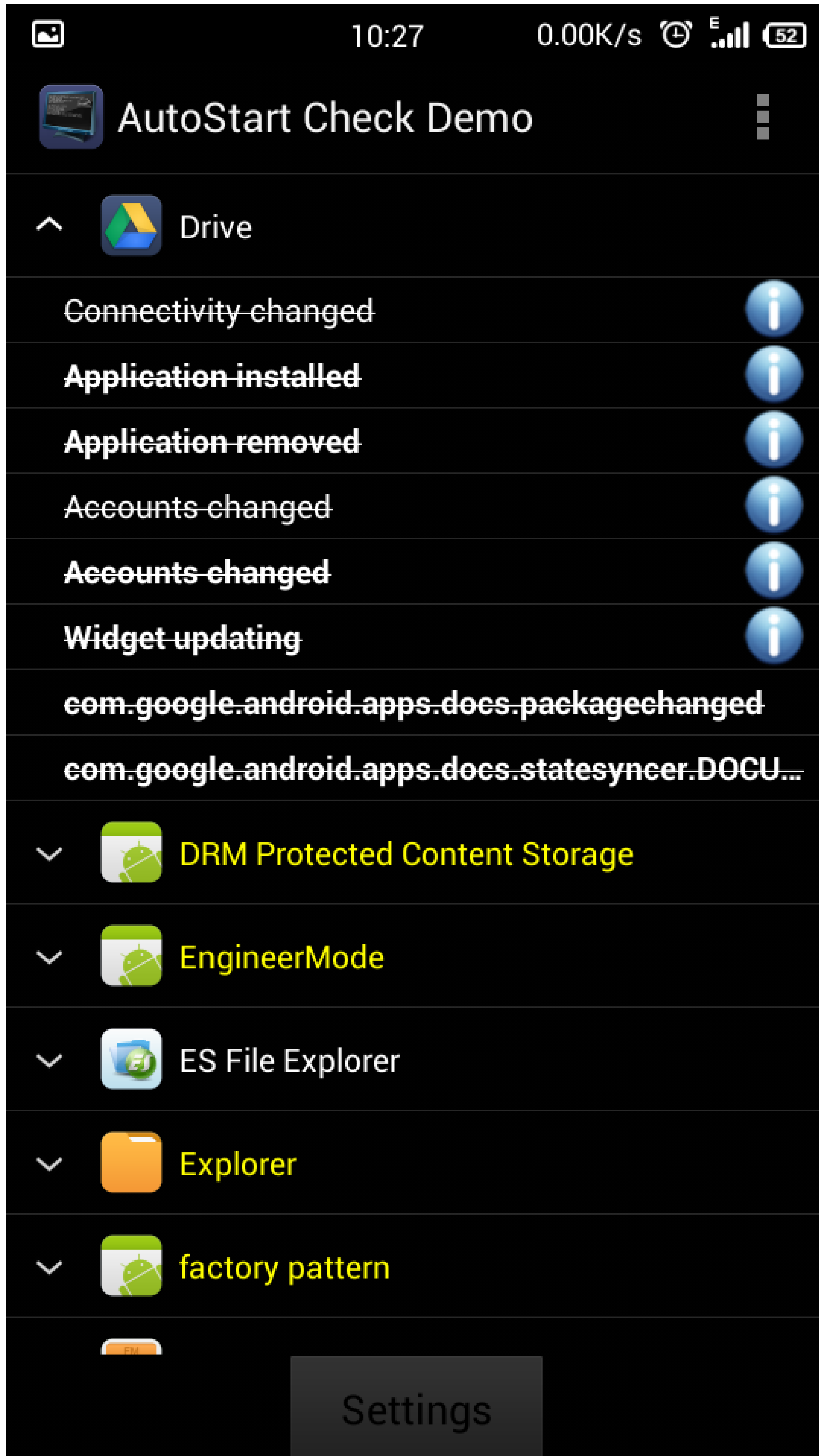
16. Download Manager



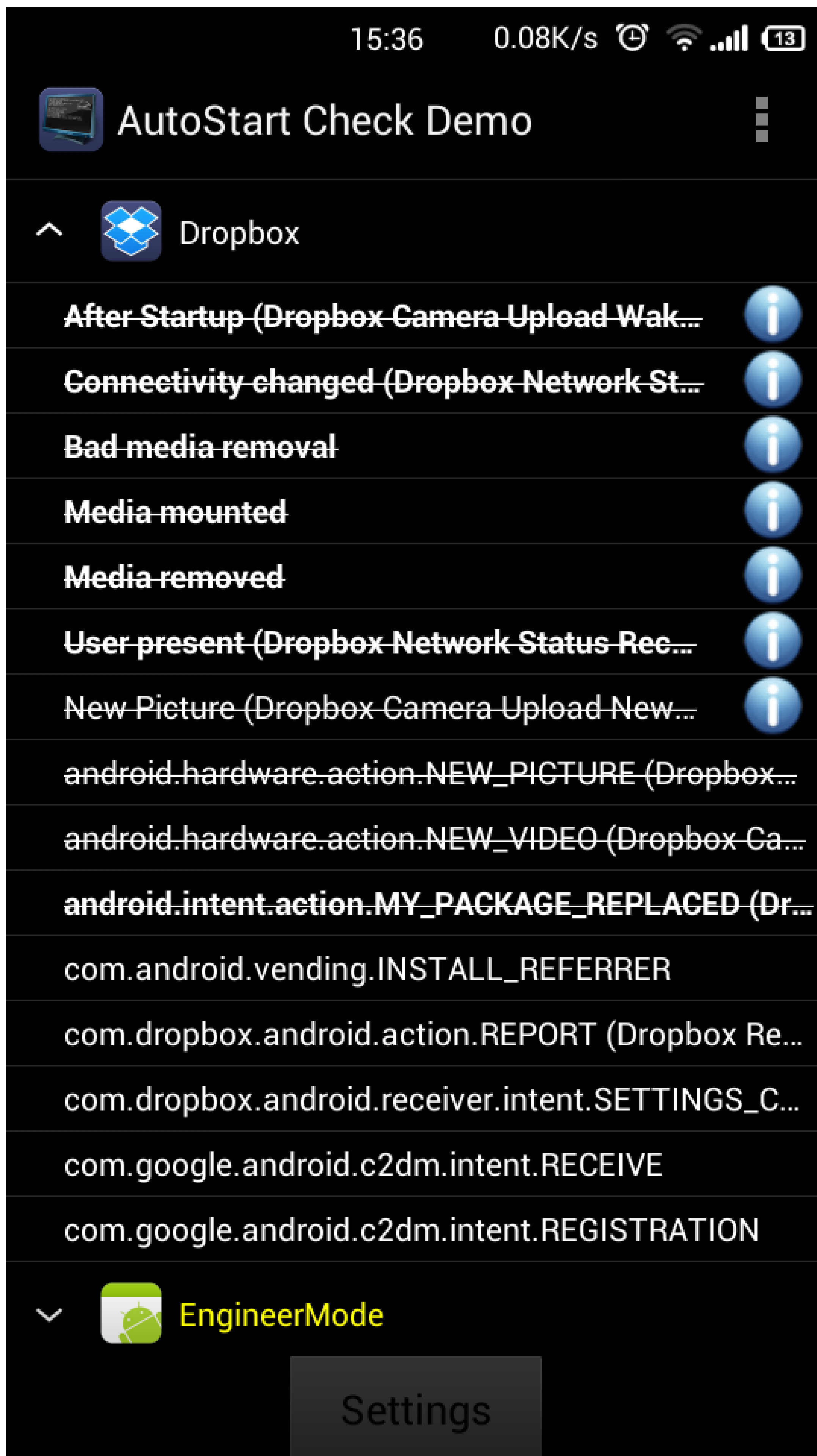
17. Downloads



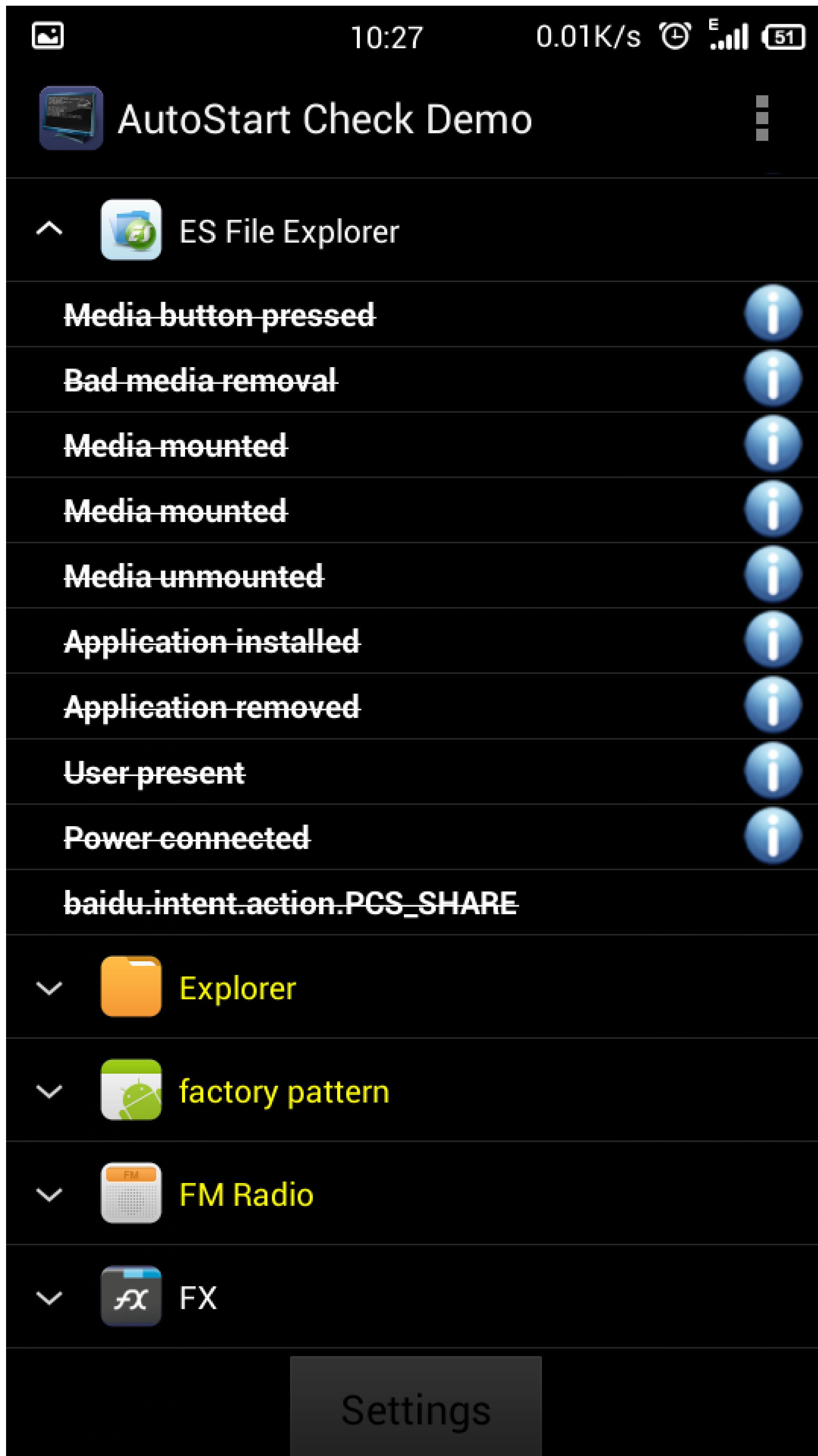
## 18. Drive


10:27
0.00K/s
52
AutoStart Check Demo
Drive
Connectivity changed
Application installed
Application removed
Accounts changed
Accounts changed
Widget updating
com.google.android.apps.docs.packagechanged
com.google.android.apps.docs.statesyncer.DOCU...
DRM Protected Content Storage
EngineerMode
ES File Explorer
Explorer
factory pattern
Settings

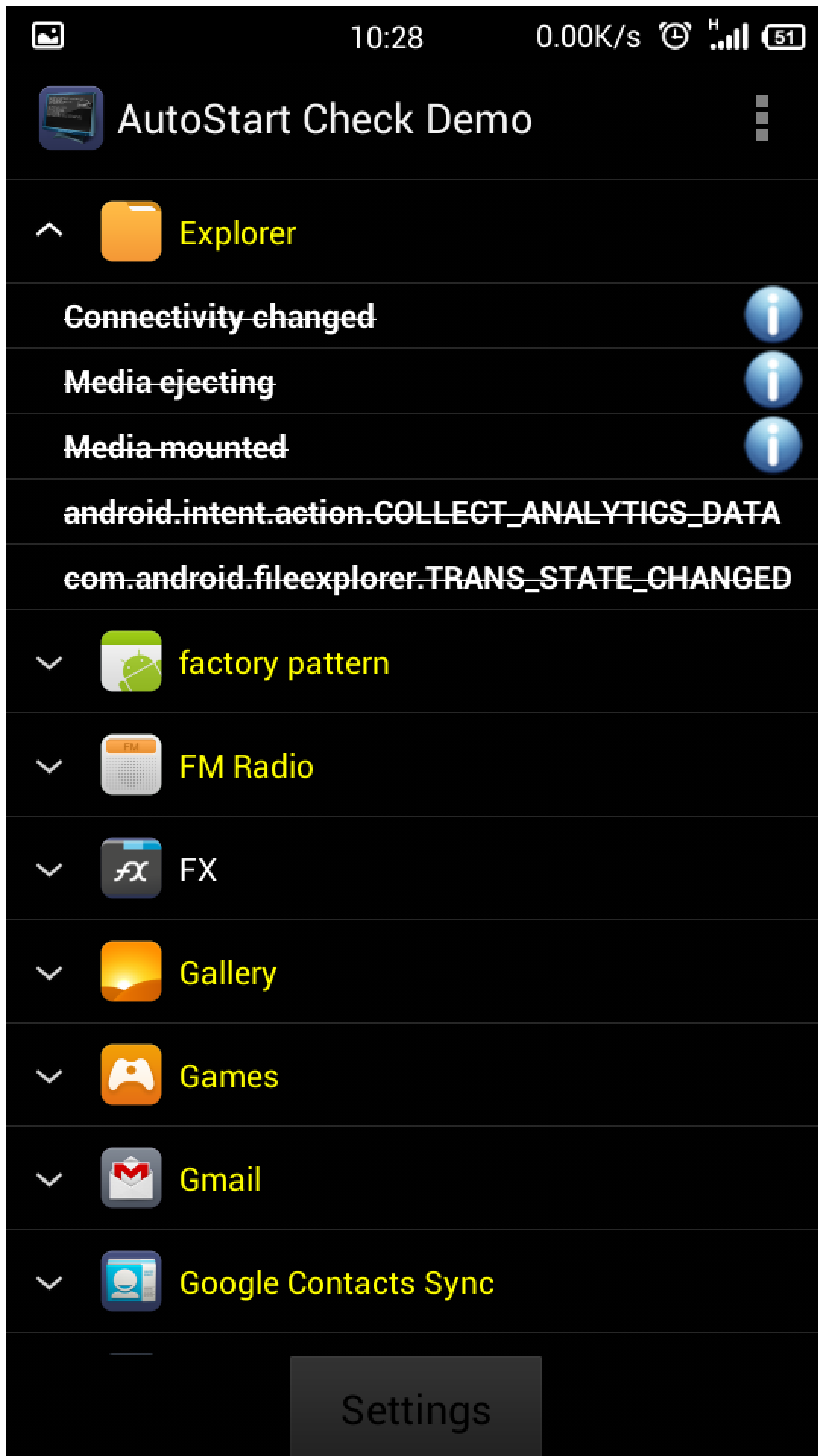
# 19. Dropbox


15:36
0.08K/s
13
AutoStart Check Demo
Dropbox
After Startup (Dropbox Camera Upload Wak...
Connectivity changed (Dropbox Network St...
Bad media removal
Media mounted
Media removed
User present (Dropbox Network Status Rec...
New Picture (Dropbox Camera Upload New...
android.hardware.action.NEW_PICTURE (Dropbox...
android.hardware.action.NEW_VIDEO (Dropbox Ca...
android.intent.action.MY_PACKAGE_REPLACED (Dr...
com.android.vending.INSTALL_REFERRER
com.dropbox.android.action.REPORT (Dropbox Re...
com.dropbox.android.receiver.intent.SETTINGS_C...
com.google.android.c2dm.intent.RECEIVE
com.google.android.c2dm.intent.REGISTRATION
EngineerMode
Settings

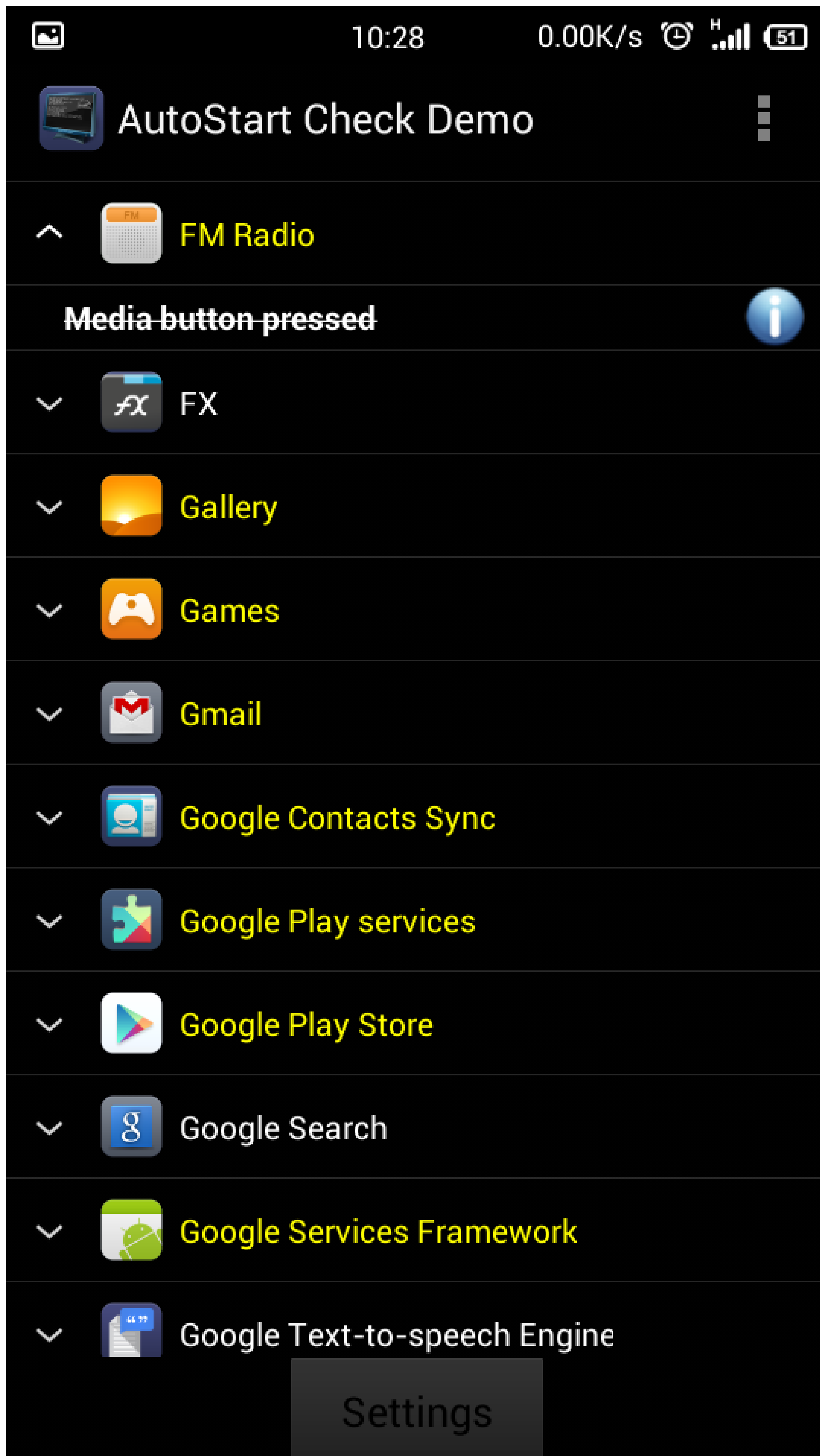
20. ES File Explorer



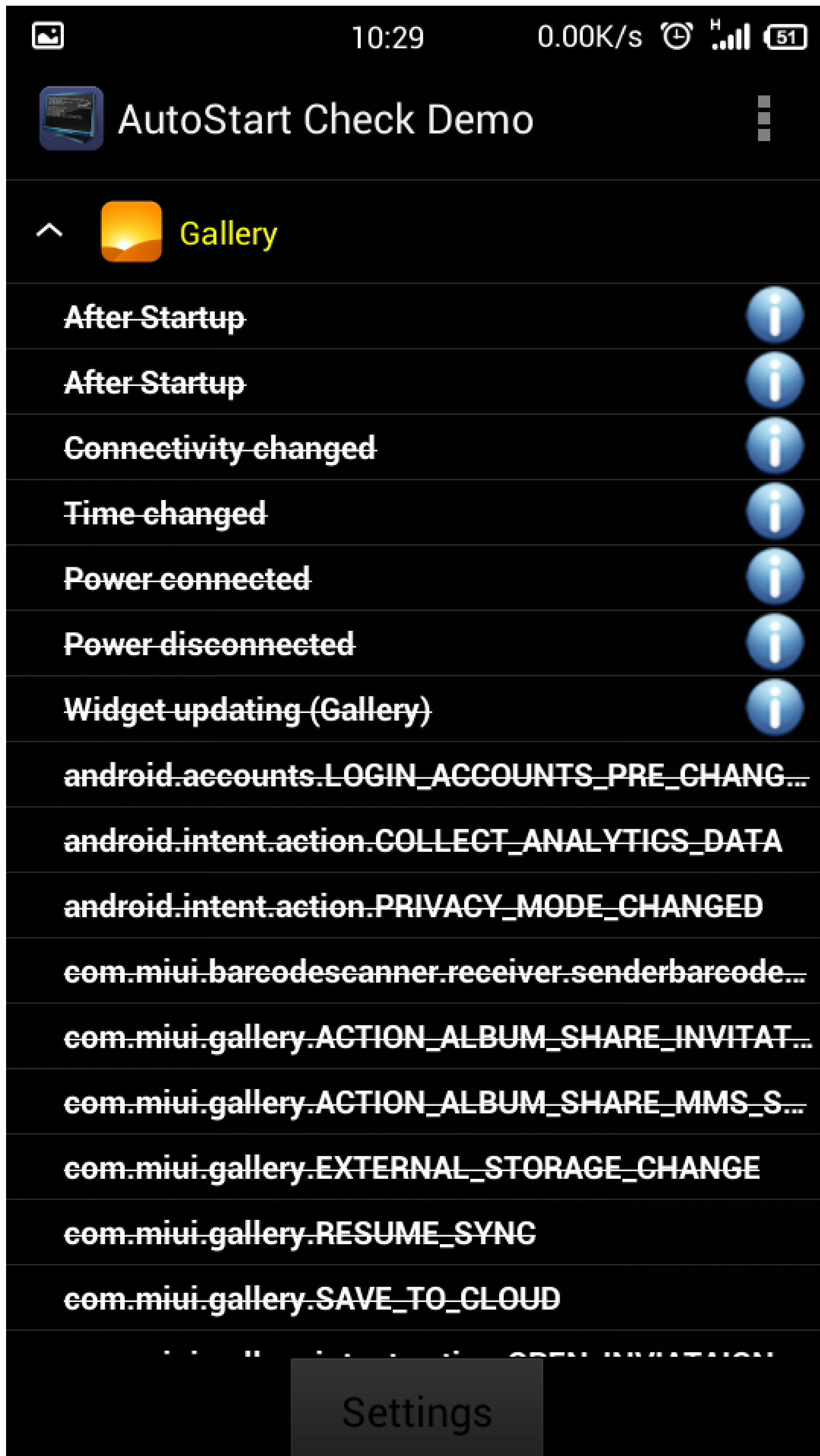
21. Explorer


10:28
0.00K/s
51
AutoStart Check Demo
Explorer
Connectivity changed
Media ejecting
Media mounted
android.intent.action.COLLECT_ANALYTICS_DATA
com.android.fileexplorer.TRANS_STATE_CHANGED
factory pattern
FM Radio
FX
Gallery
Games
Gmail
Google Contacts Sync
Settings

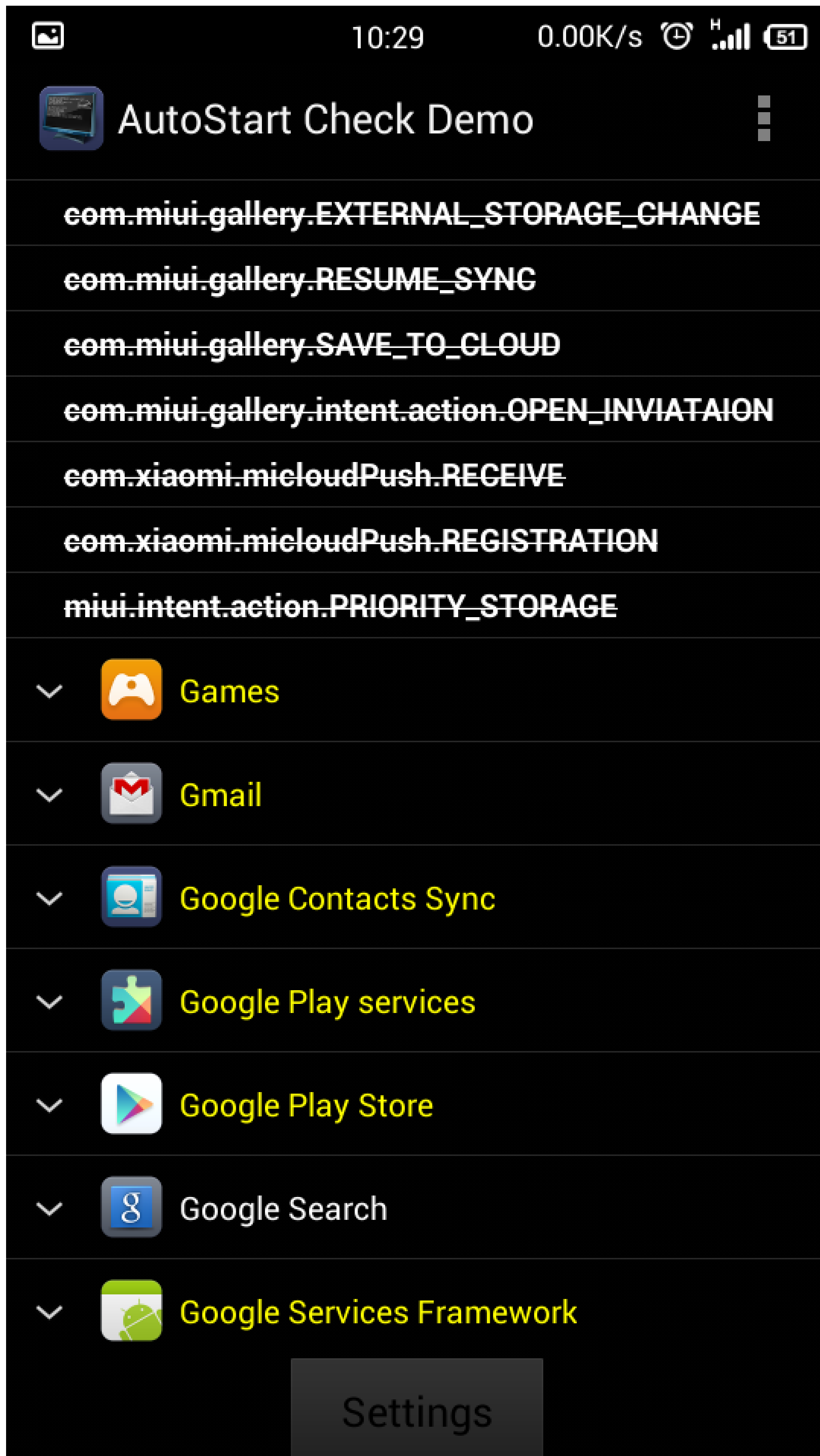
# 22. FM Radio


10:28
0.00K/s
51
AutoStart Check Demo
FM Radio
Media button pressed
FX
Gallery
Games
Gmail
Google Contacts Sync
Google Play services
Google Play Store
Google Search
Google Services Framework
Google Text-to-speech Engine
Settings

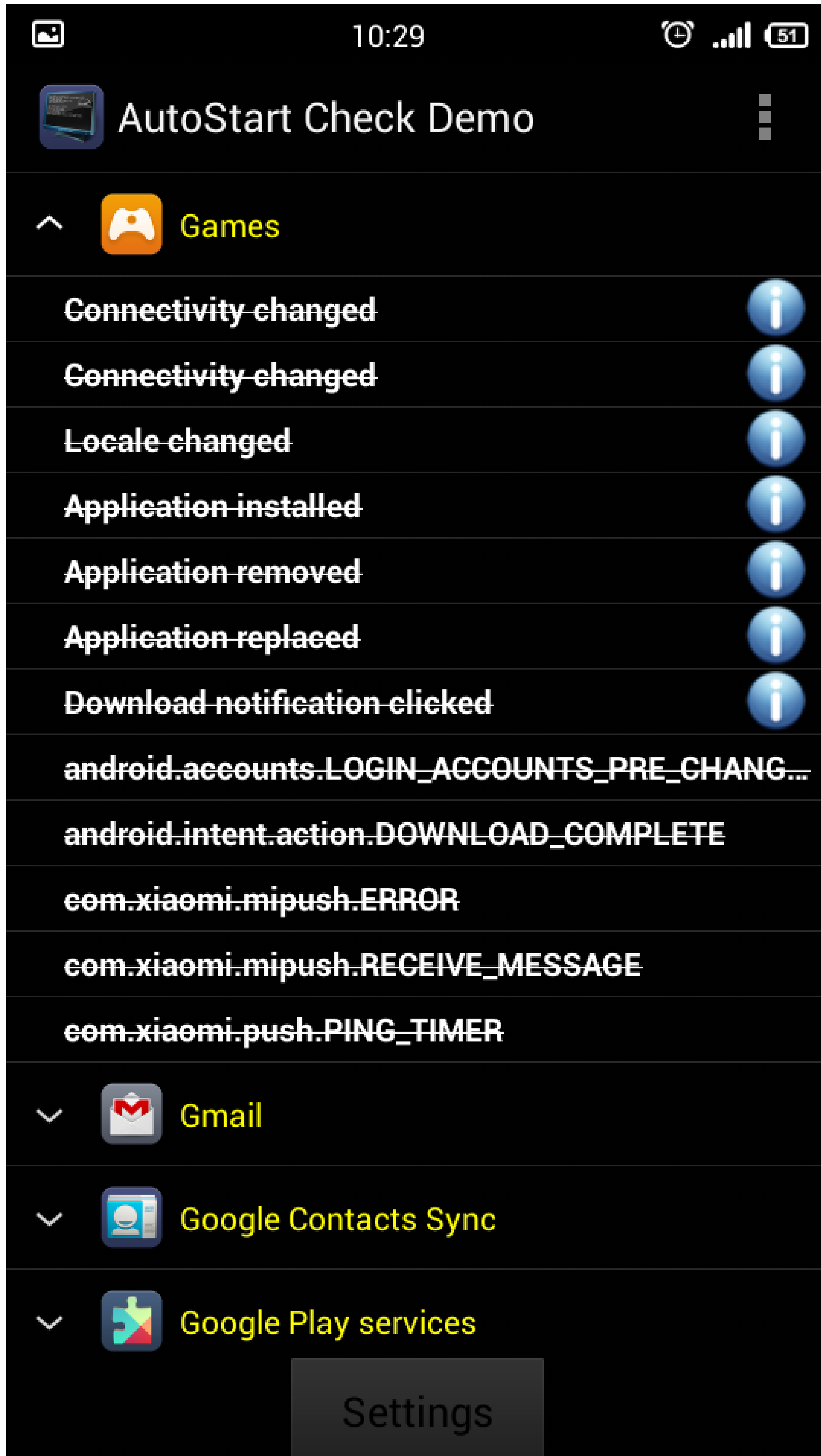
# 23. Gallery (hlm. 1/2)

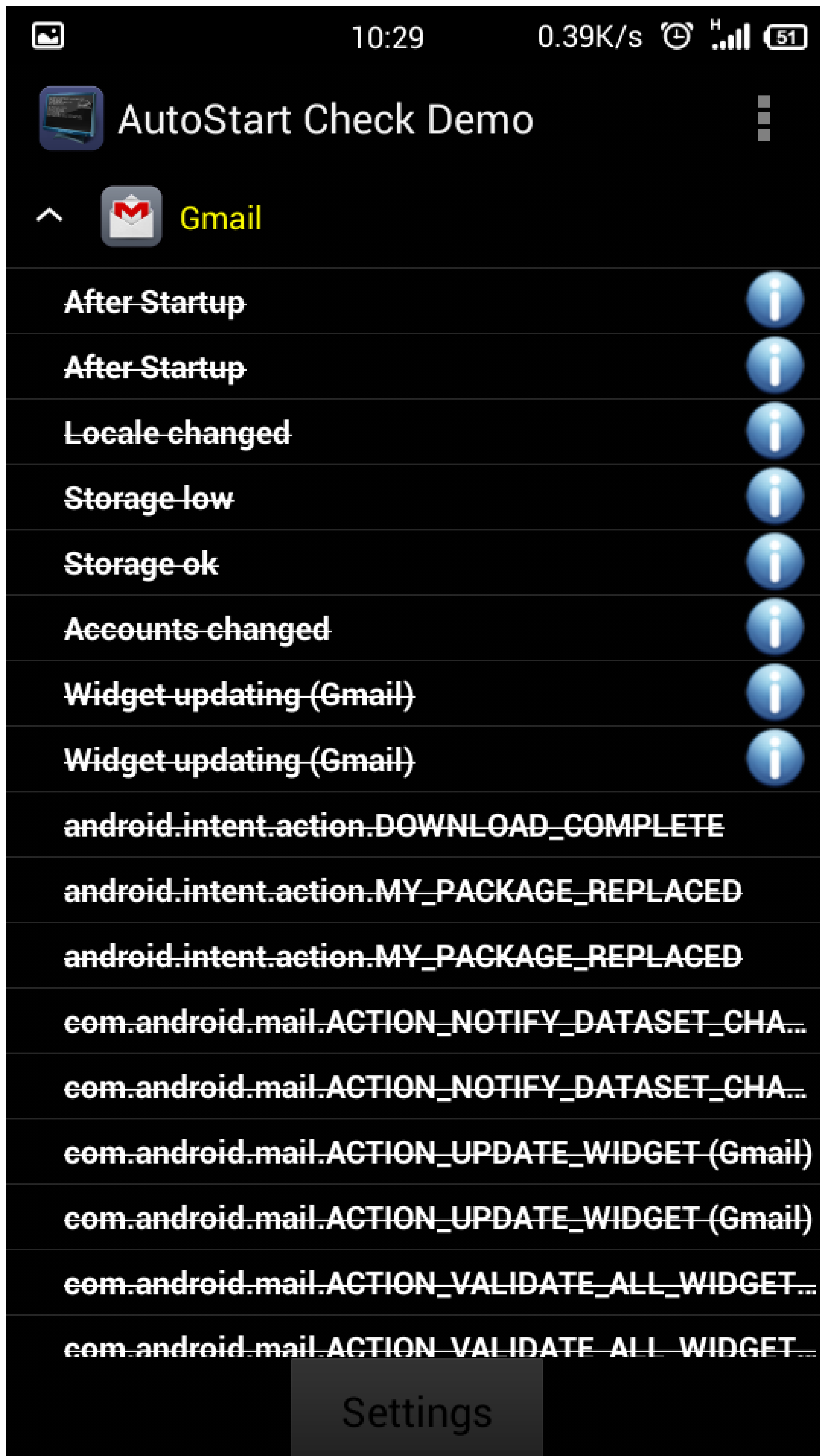


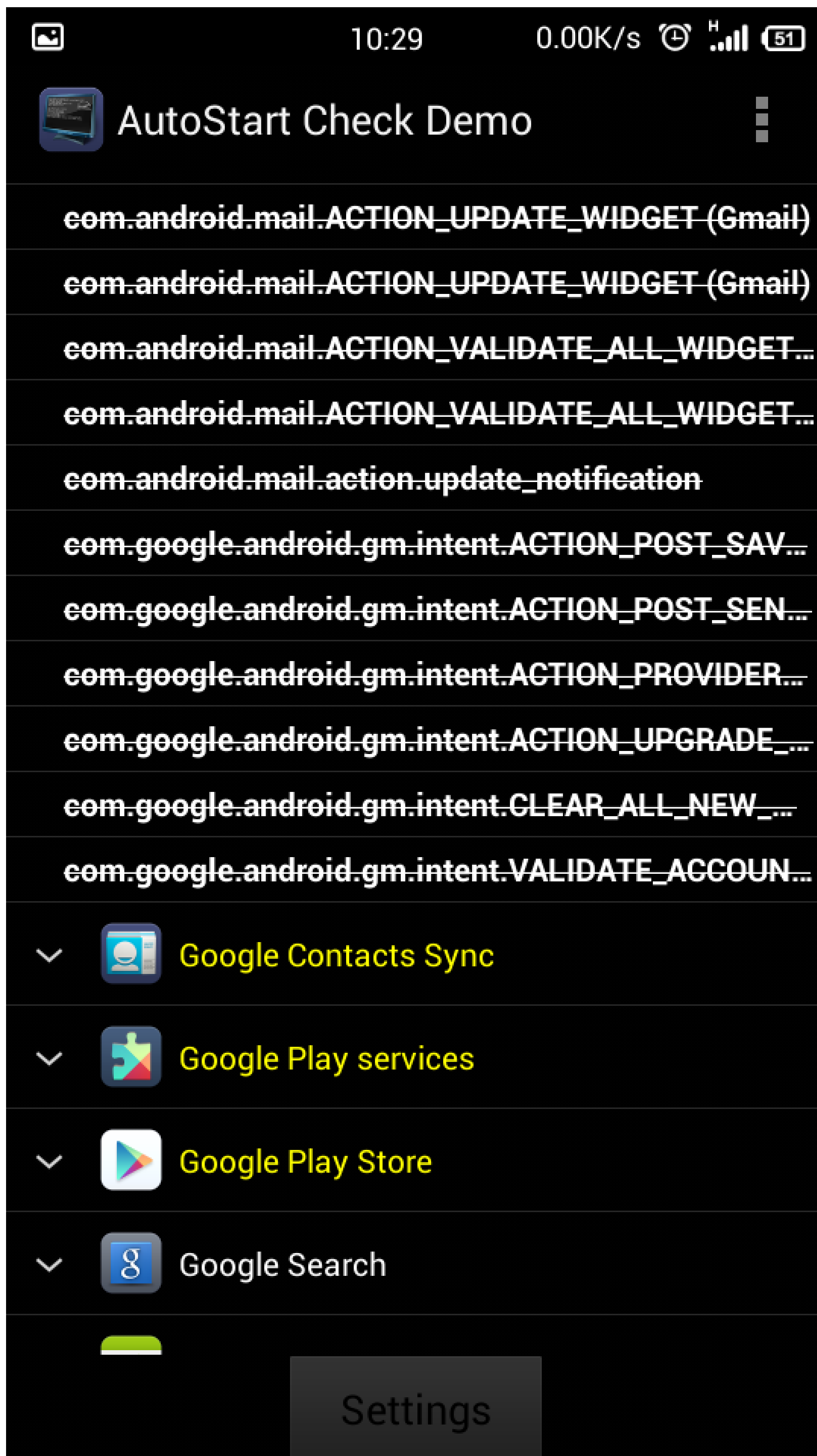
Gallery (hlm. 2/2)



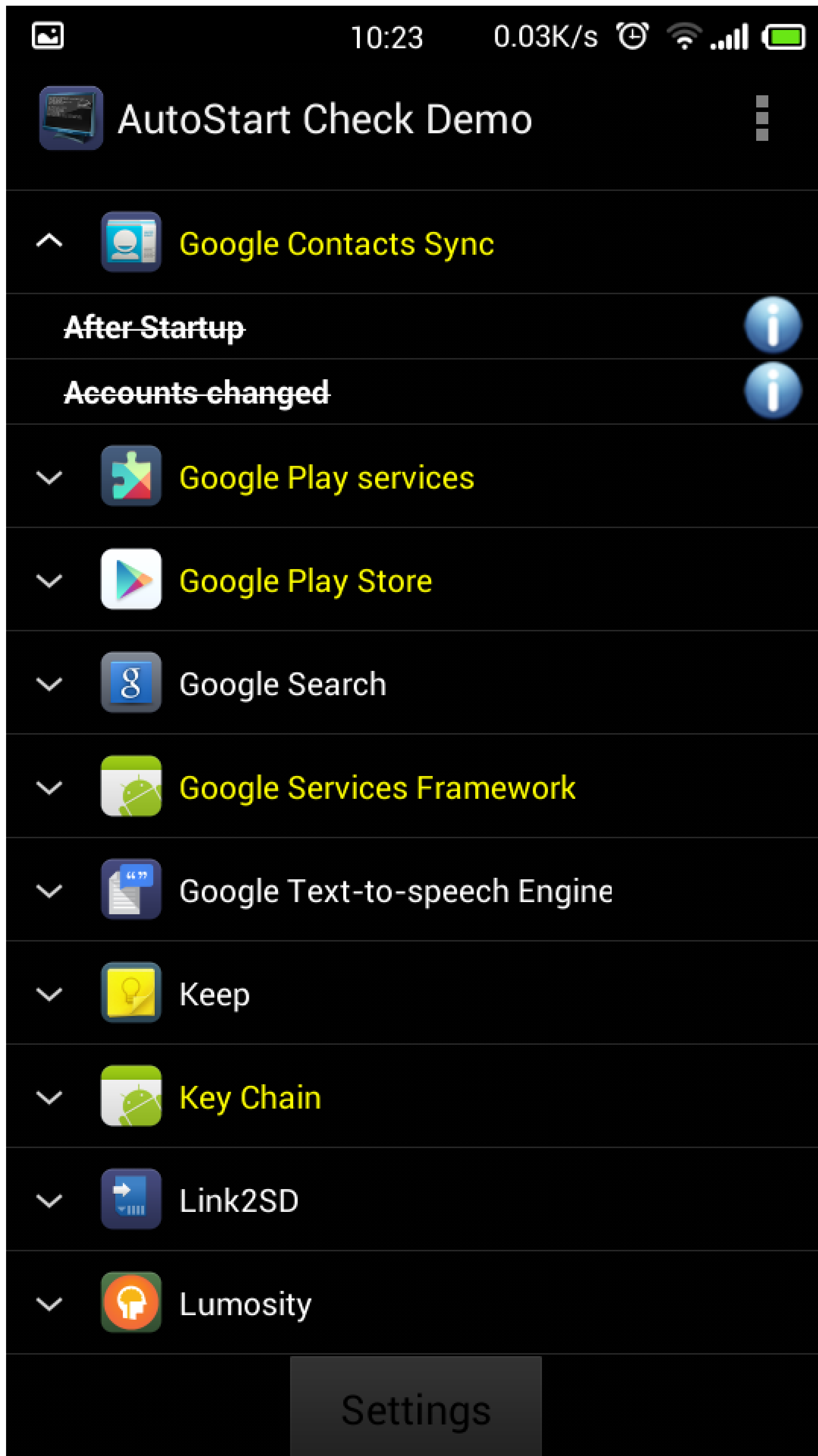
24. Games


10:29
51
AutoStart Check Demo
Games
Connectivity changed
Connectivity changed
Locale changed
Application installed
Application removed
Application replaced
Download notification clicked
android.accounts.LOGIN_ACCOUNTS_PRE_CHANG...
android.intent.action.DOWNLOAD_COMPLETE
com.xiaomi.mipush.ERROR
com.xiaomi.mipush.RECEIVE_MESSAGE
com.xiaomi.push.PING_TIMER
Gmail
Google Contacts Sync
Google Play services
Settings

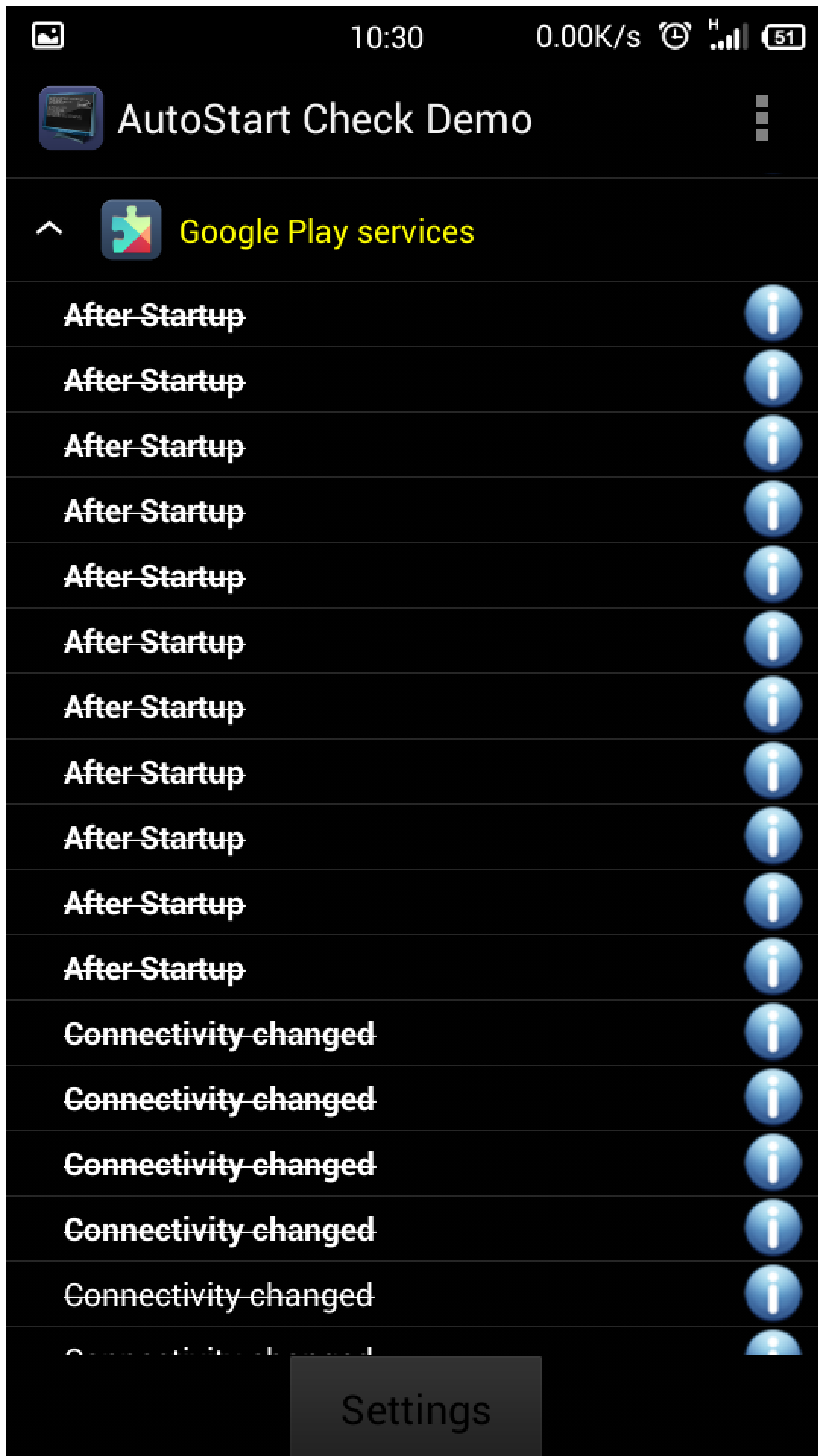

10:29
0.39K/s
AutoStart Check Demo
Gmail
After Startup
After Startup
Locale changed
Storage low
Storage ok
Accounts changed
Widget updating (Gmail)
Widget updating (Gmail)
android.intent.action.DOWNLOAD_COMPLETE
android.intent.action.MY_PACKAGE_REPLACED
android.intent.action.MY_PACKAGE_REPLACED
com.android.mail.ACTION_NOTIFY_DATASET_CHA...
com.android.mail.ACTION_NOTIFY_DATASET_CHA...
com.android.mail.ACTION_UPDATE_WIDGET (Gmail)
com.android.mail.ACTION_UPDATE_WIDGET (Gmail)
com.android.mail.ACTION_VALIDATE_ALL_WIDGET...
com.android.mail.ACTION_VALIDATE_ALL_WIDGET...
Settings


10:29
0.00K/s
AutoStart Check Demo
com.android.mail.ACTION_UPDATE_WIDGET (Gmail)
com.android.mail.ACTION_UPDATE_WIDGET (Gmail)
com.android.mail.ACTION_VALIDATE_ALL_WIDGET...
com.android.mail.ACTION_VALIDATE_ALL_WIDGET...
com.android.mail.action.update_notification
com.google.android.gm.intent.ACTION_POST_SAV...
com.google.android.gm.intent.ACTION_POST_SEN...
com.google.android.gm.intent.ACTION_PROVIDER...
com.google.android.gm.intent.ACTION_UPGRADE_...
com.google.android.gm.intent.CLEAR_ALL_NEW_...
com.google.android.gm.intent.VALIDATE_ACCOUN...
Google Contacts Sync
Google Play services
Google Play Store
Google Search
Settings

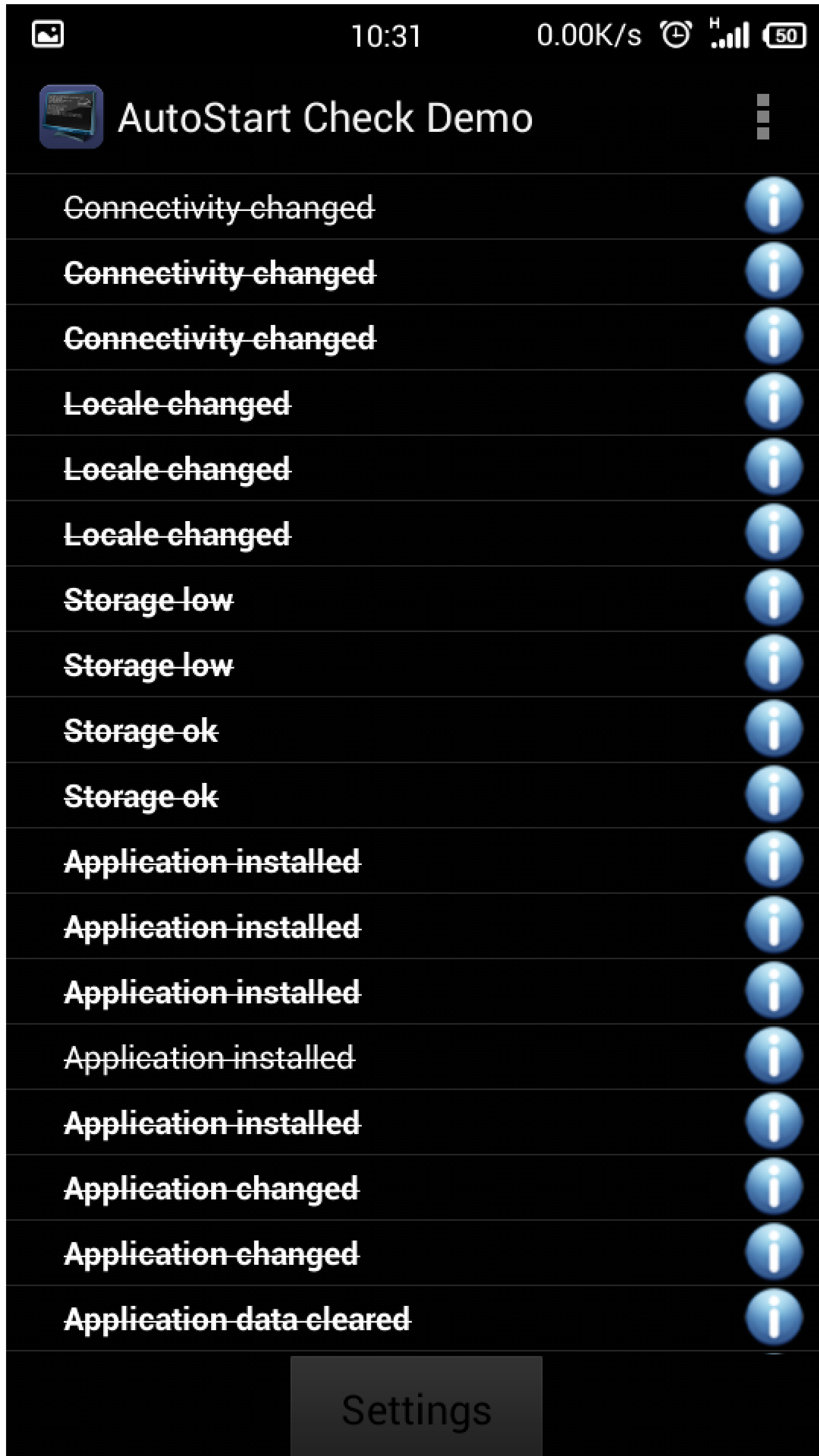
26. Google Contacs Sync



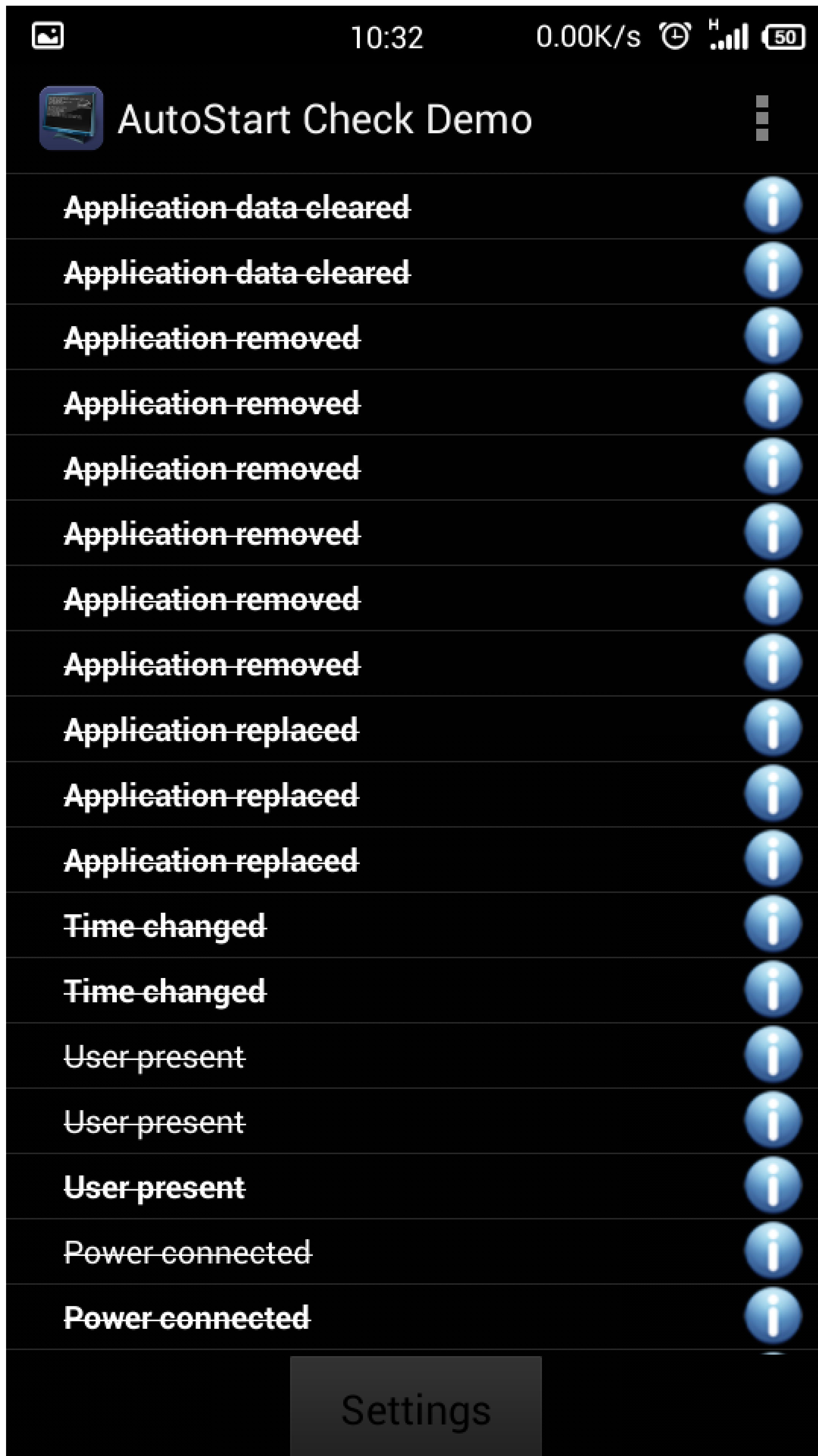
27. Google Play services (hlm. 1/5)

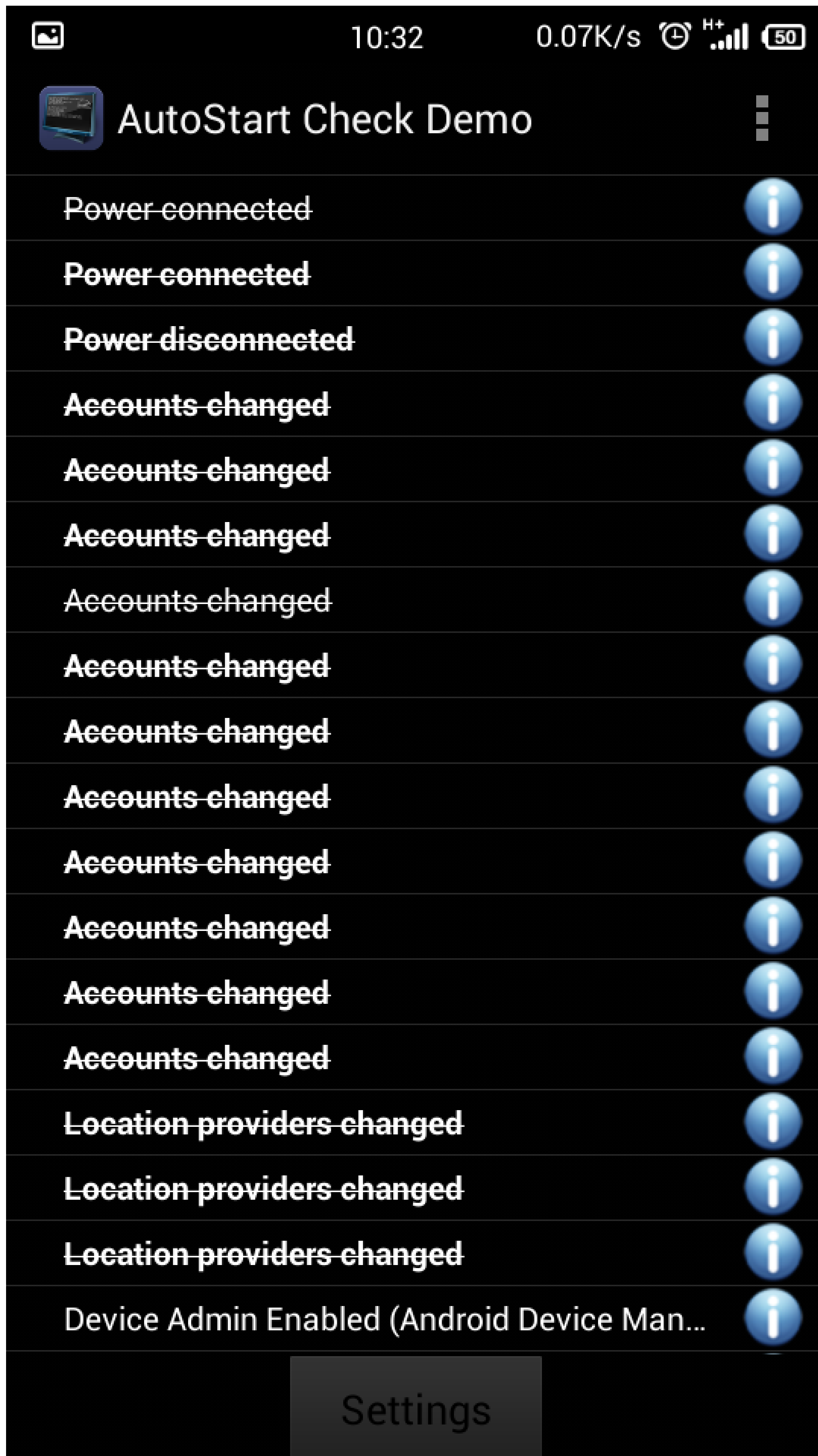


Google Play services (hlm. 2/5)

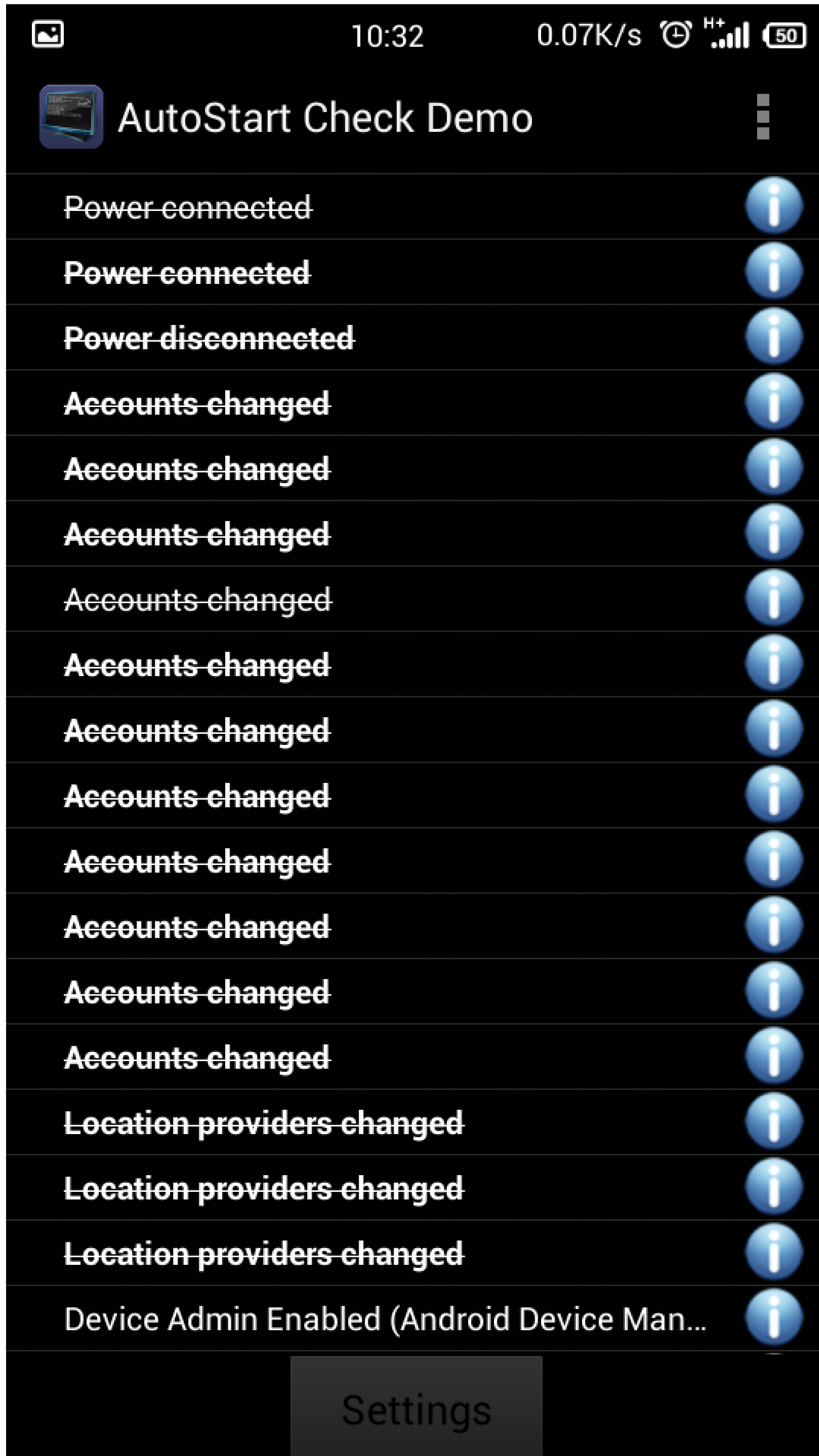


Google Play services (hlm. 3/5)

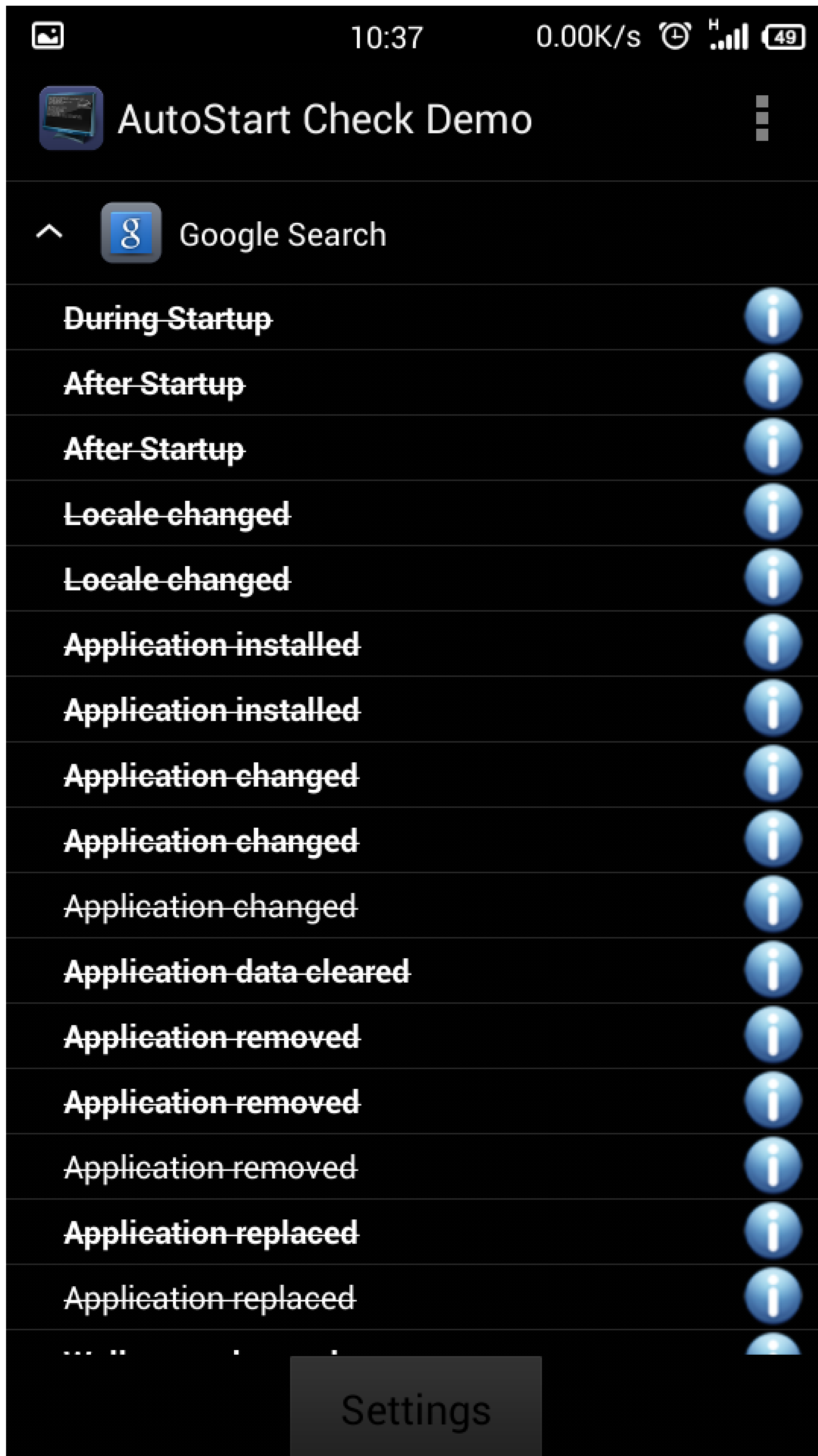


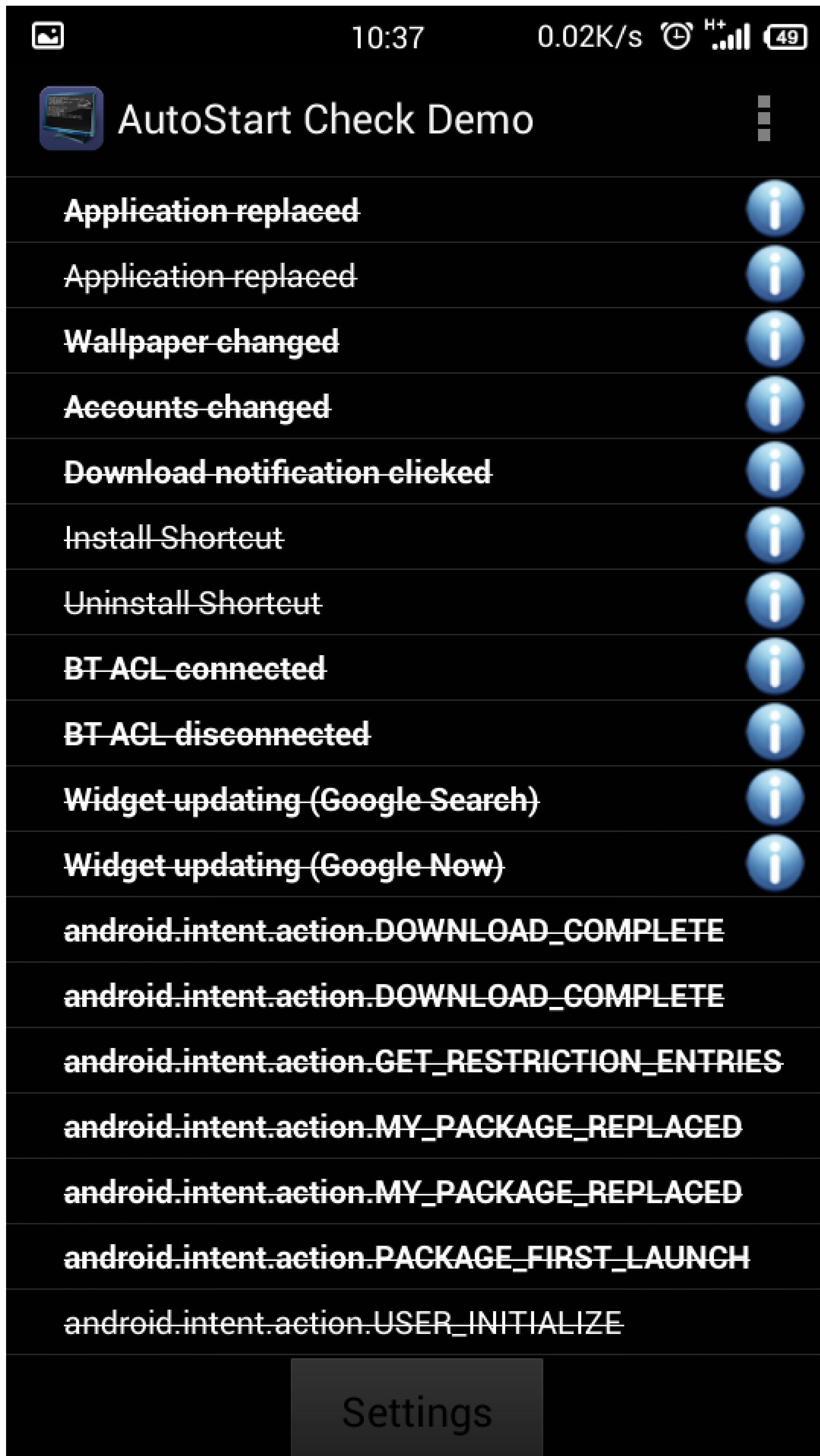

10:32
0.07K/s
50
AutoStart Check Demo
Power connected
Power connected
Power disconnected
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Accounts changed
Location providers changed
Location providers changed
Location providers changed
Device Admin Enabled (Android Device Man...
Settings

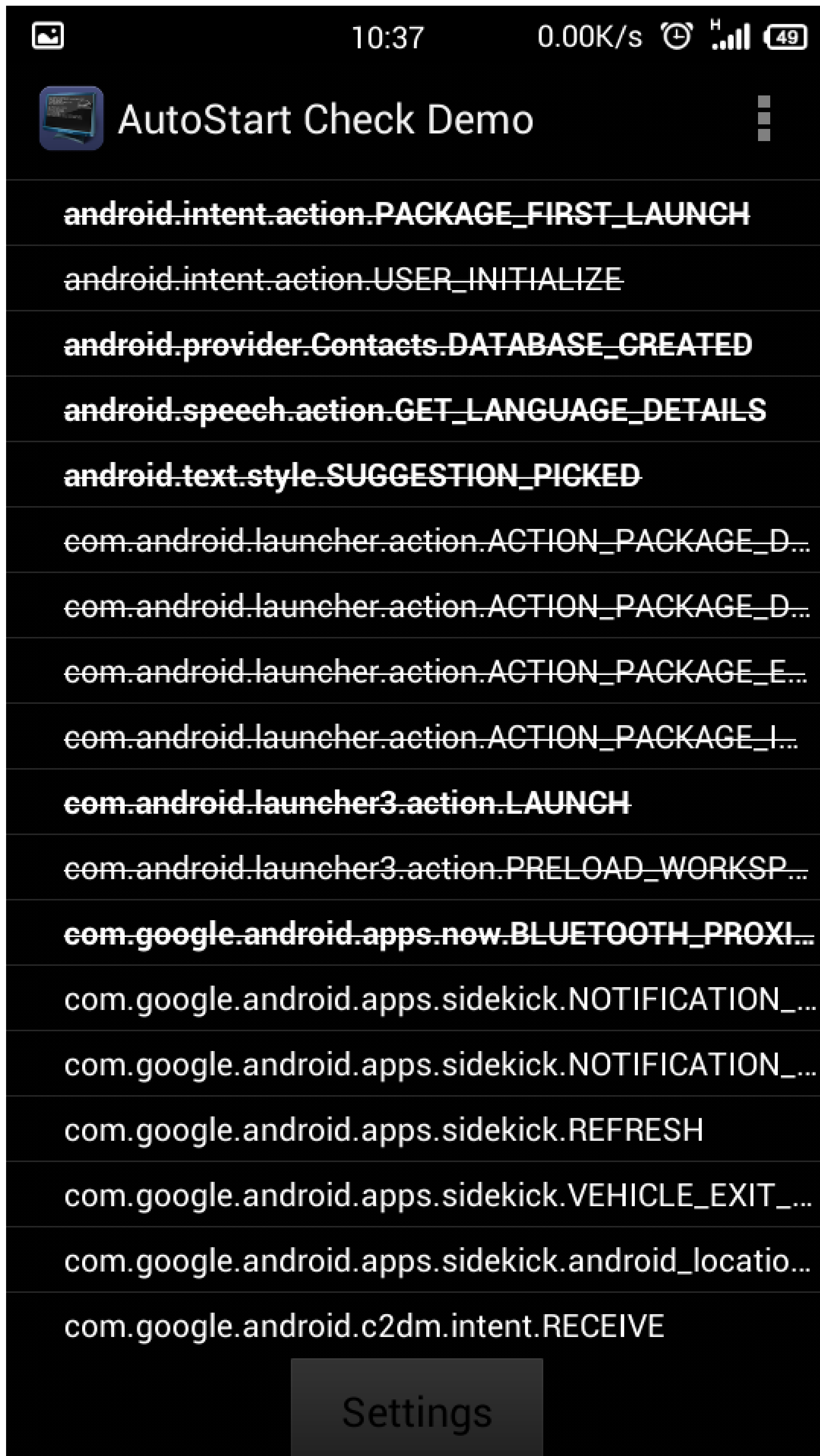
Google Play services (hlm. 5/5)



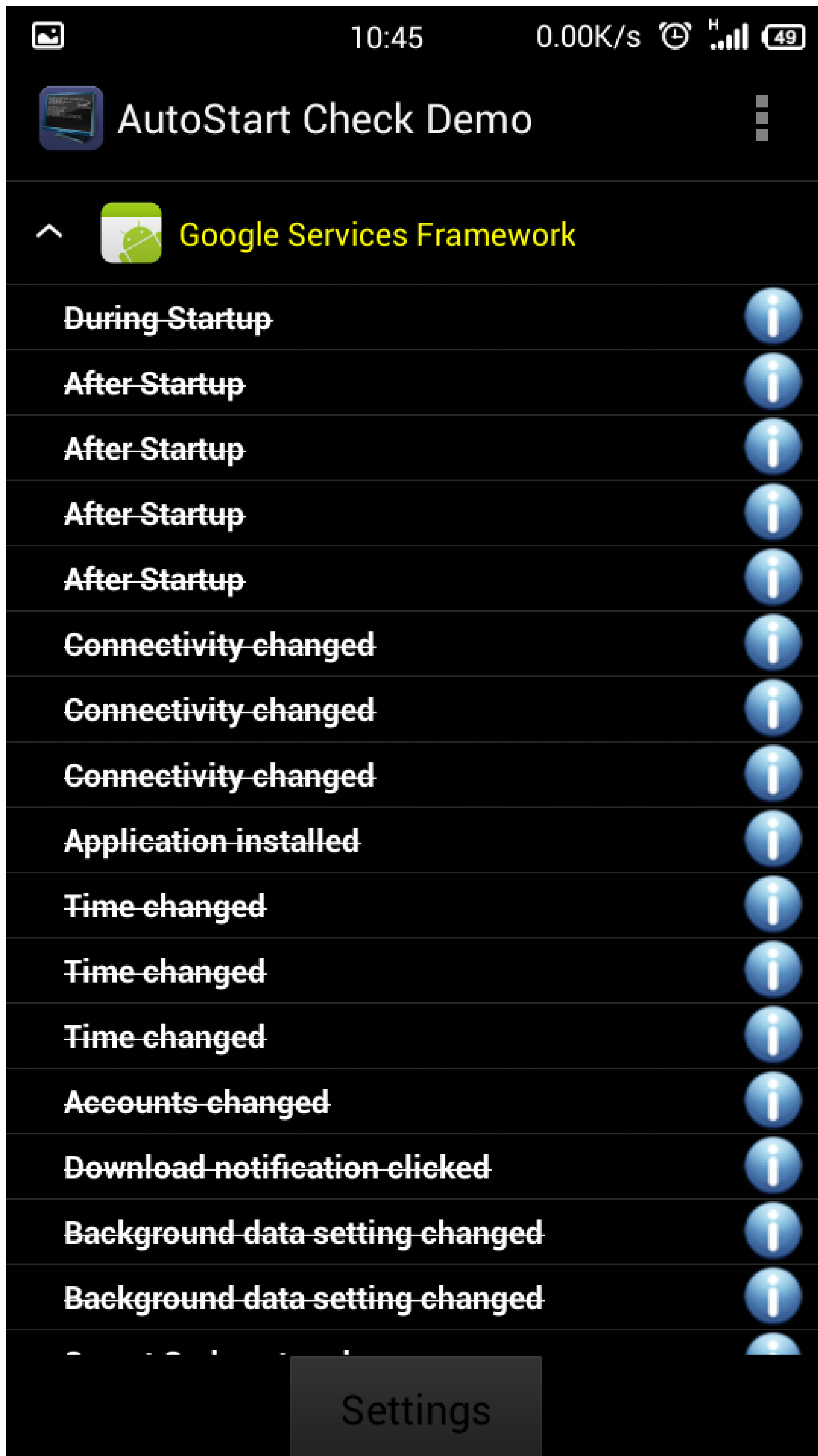
28. Google Search (hlm. 1/3)

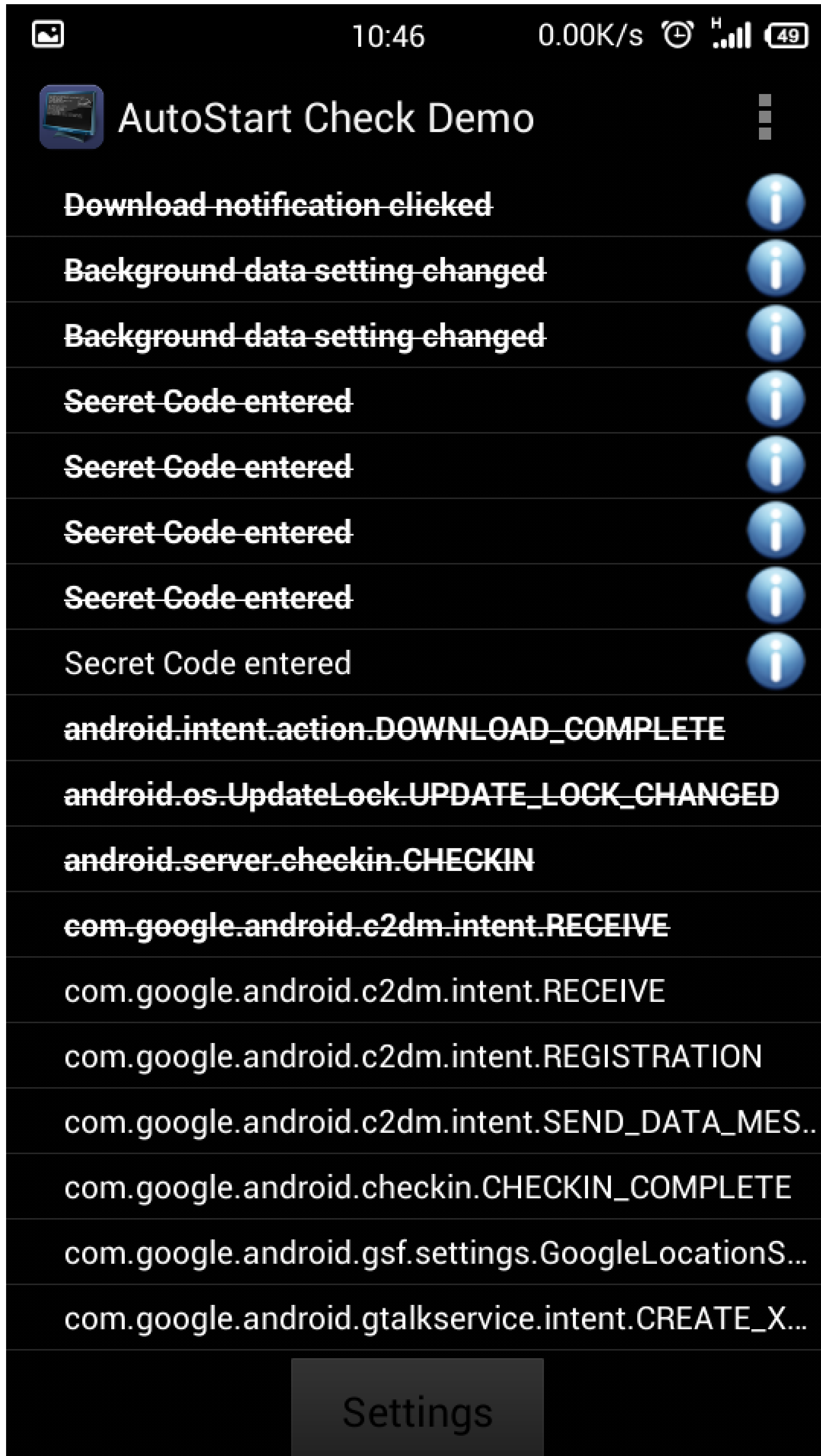



10:37
0.02K/s
49
AutoStart Check Demo
Application replaced
Application replaced
Wallpaper changed
Accounts changed
Download notification clicked
Install Shortcut
Uninstall Shortcut
BT ACL connected
BT ACL disconnected
Widget updating (Google Search)
Widget updating (Google Now)
android.intent.action.DOWNLOAD_COMPLETE
android.intent.action.DOWNLOAD_COMPLETE
android.intent.action.GET_RESTRICTION_ENTRIES
android.intent.action.MY_PACKAGE_REPLACED
android.intent.action.MY_PACKAGE_REPLACED
android.intent.action.PACKAGE_FIRST_LAUNCH
android.intent.action.USER_INITIALIZE
Settings

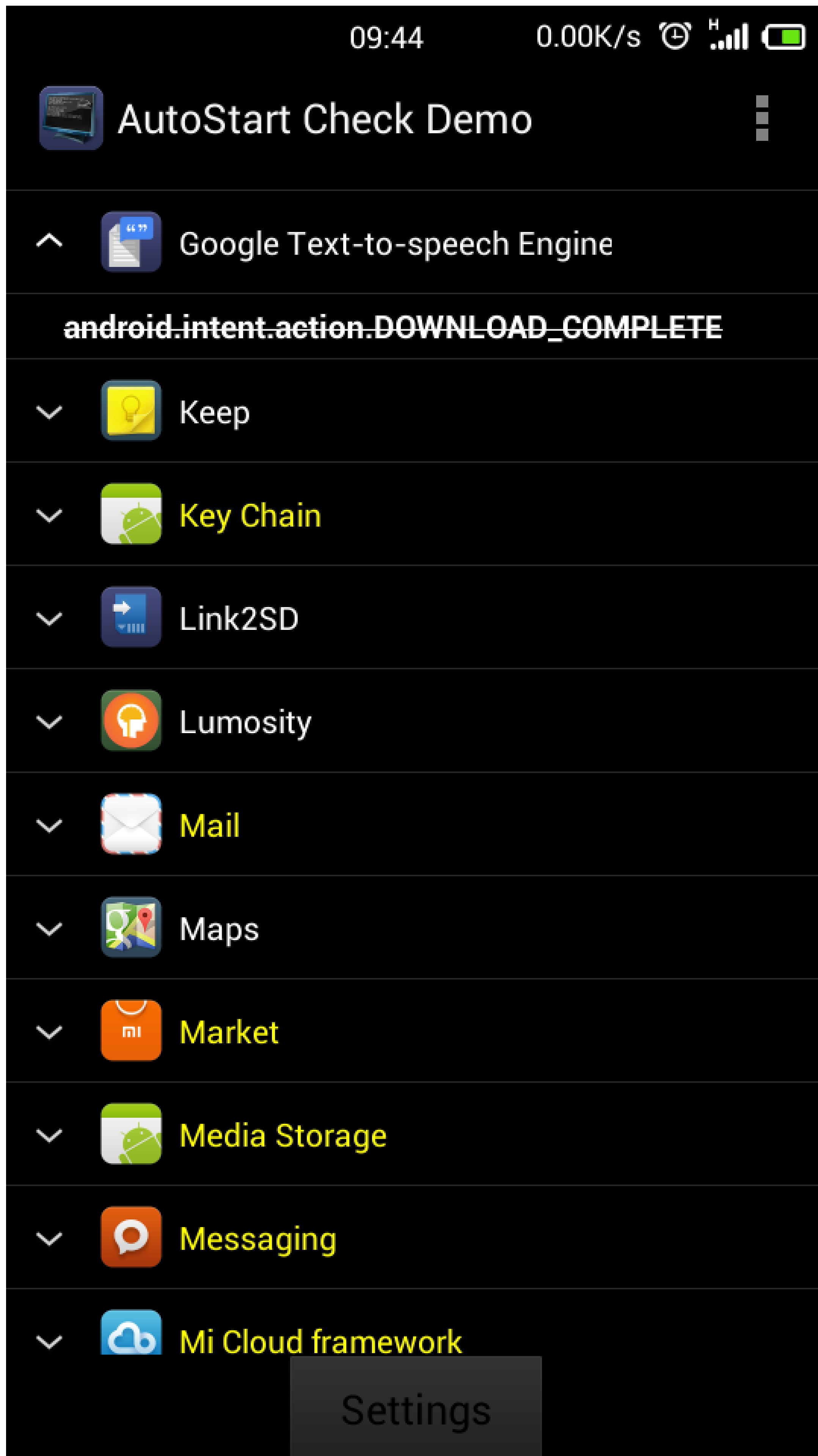

10:37
0.00K/s
49
AutoStart Check Demo
android.intent.action.PACKAGE_FIRST_LAUNCH
android.intent.action.USER_INITIALIZE
android.provider.Contacts.DATABASE_CREATED
android.speech.action.GET_LANGUAGE_DETAILS
android.text.style.SUGGESTION_PICKED
com.android.launcher.action.ACTION_PACKAGE_D...
com.android.launcher.action.ACTION_PACKAGE_D...
com.android.launcher.action.ACTION_PACKAGE_E...
com.android.launcher.action.ACTION_PACKAGE_I...
com.android.launcher3.action.LAUNCH
com.android.launcher3.action.PRELOAD_WORKSP...
com.google.android.apps.now.BLUETOOTH_PROXI...
com.google.android.apps.sidekick.NOTIFICATION_...
com.google.android.apps.sidekick.NOTIFICATION_...
com.google.android.apps.sidekick.REFRESH
com.google.android.apps.sidekick.VEHICLE_EXIT_...
com.google.android.apps.sidekick.android_locatio...
com.google.android.c2dm.intent.RECEIVE
Settings

29. Google Service Framewrok (hlm. 1/2)

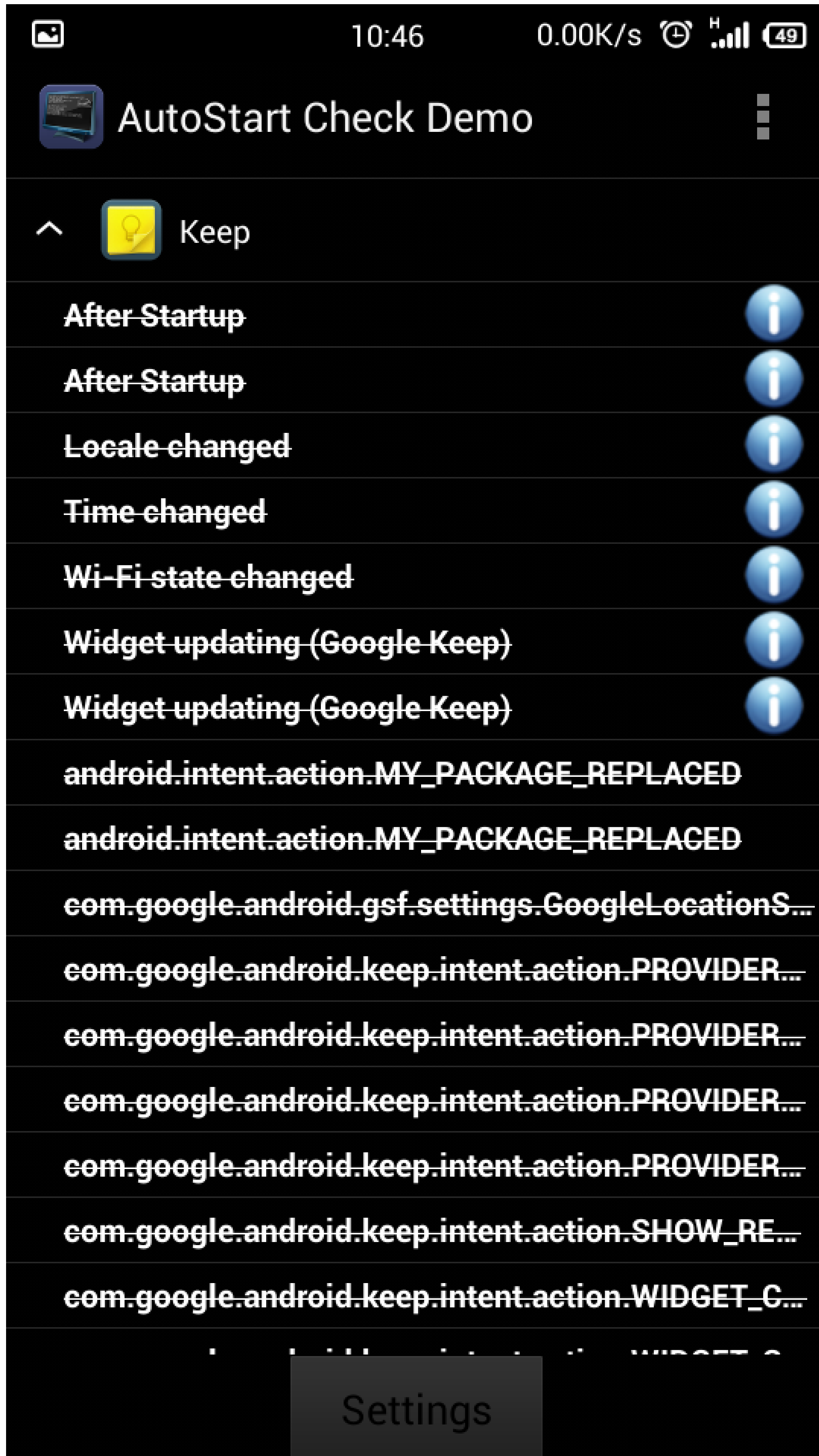



10:46
0.00K/s
49
AutoStart Check Demo
Download notification clicked
Background data setting changed
Background data setting changed
Secret Code entered
Secret Code entered
Secret Code entered
Secret Code entered
Secret Code entered
android.intent.action.DOWNLOAD_COMPLETE
android.os.UpdateLock.UPDATE_LOCK_CHANGED
android.server.checkin.CHECKIN
com.google.android.c2dm.intent.RECEIVE
com.google.android.c2dm.intent.RECEIVE
com.google.android.c2dm.intent.REGISTRATION
com.google.android.c2dm.intent.SEND_DATA_MES..
com.google.android.checkin.CHECKIN_COMPLETE
com.google.android.gsf.settings.GoogleLocationS...
com.google.android.gtalkservice.intent.CREATE_X...
Settings

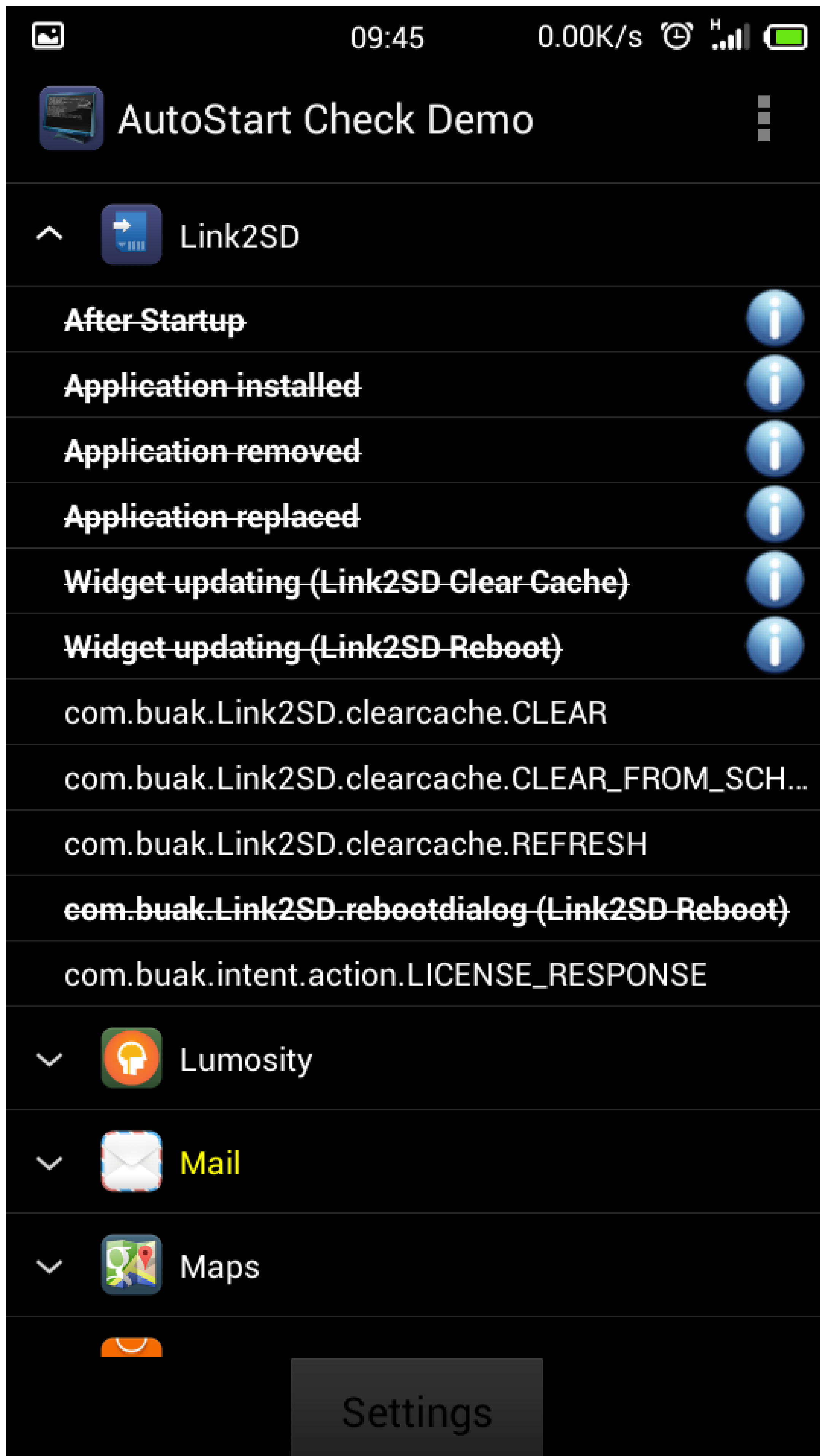
30. Google Text-to-speech Engine



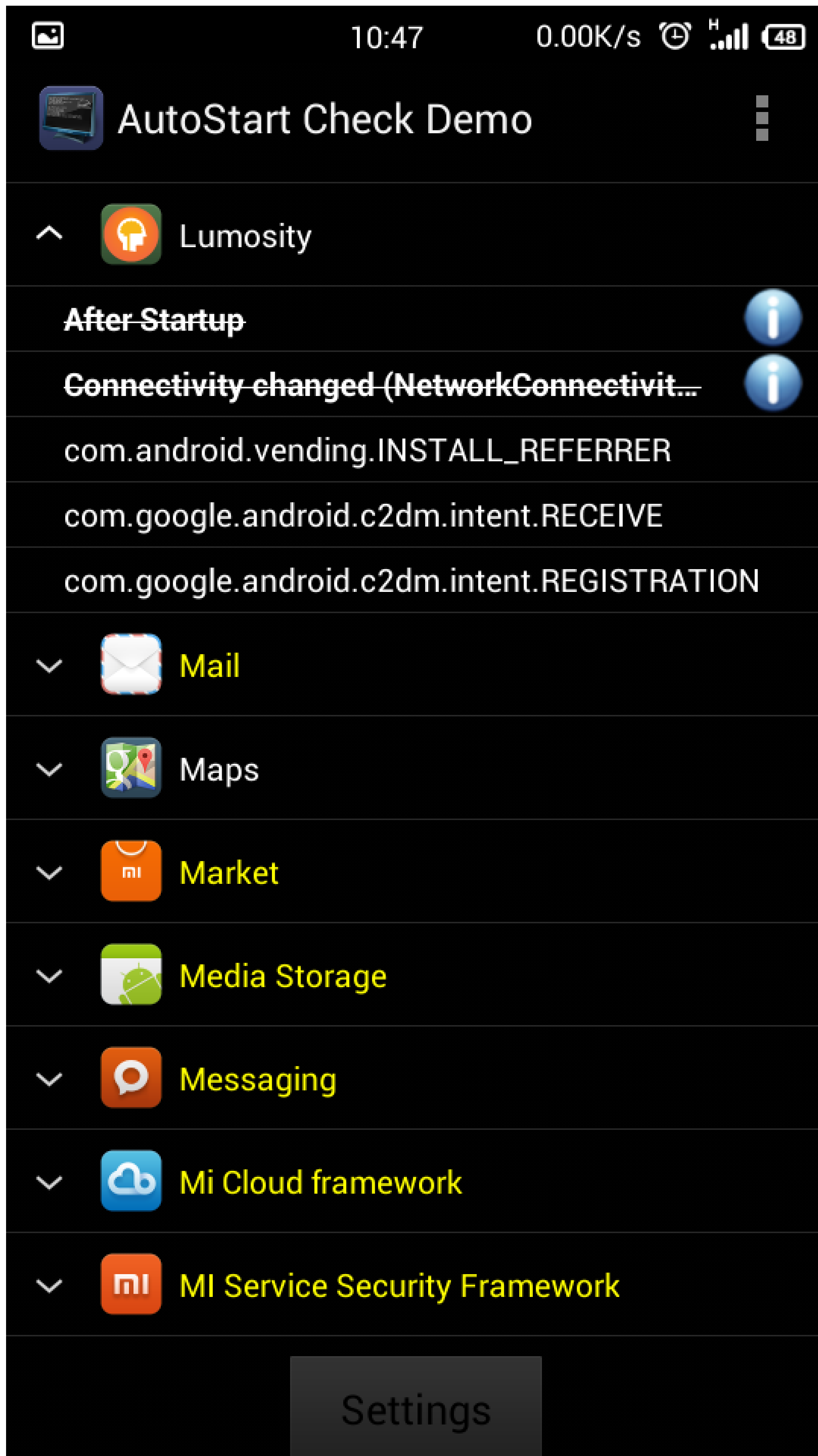
31. Keep


10:46
0.00K/s
49
AutoStart Check Demo
Keep
After Startup
After Startup
Locale changed
Time changed
Wi-Fi state changed
Widget updating (Google Keep)
Widget updating (Google Keep)
android.intent.action.MY_PACKAGE_REPLACED
android.intent.action.MY_PACKAGE_REPLACED
com.google.android.gsf.settings.GoogleLocationS...
com.google.android.keep.intent.action.PROVIDER...
com.google.android.keep.intent.action.PROVIDER...
com.google.android.keep.intent.action.PROVIDER...
com.google.android.keep.intent.action.PROVIDER...
com.google.android.keep.intent.action.SHOW_RE...
com.google.android.keep.intent.action.WIDGET_C...
Settings

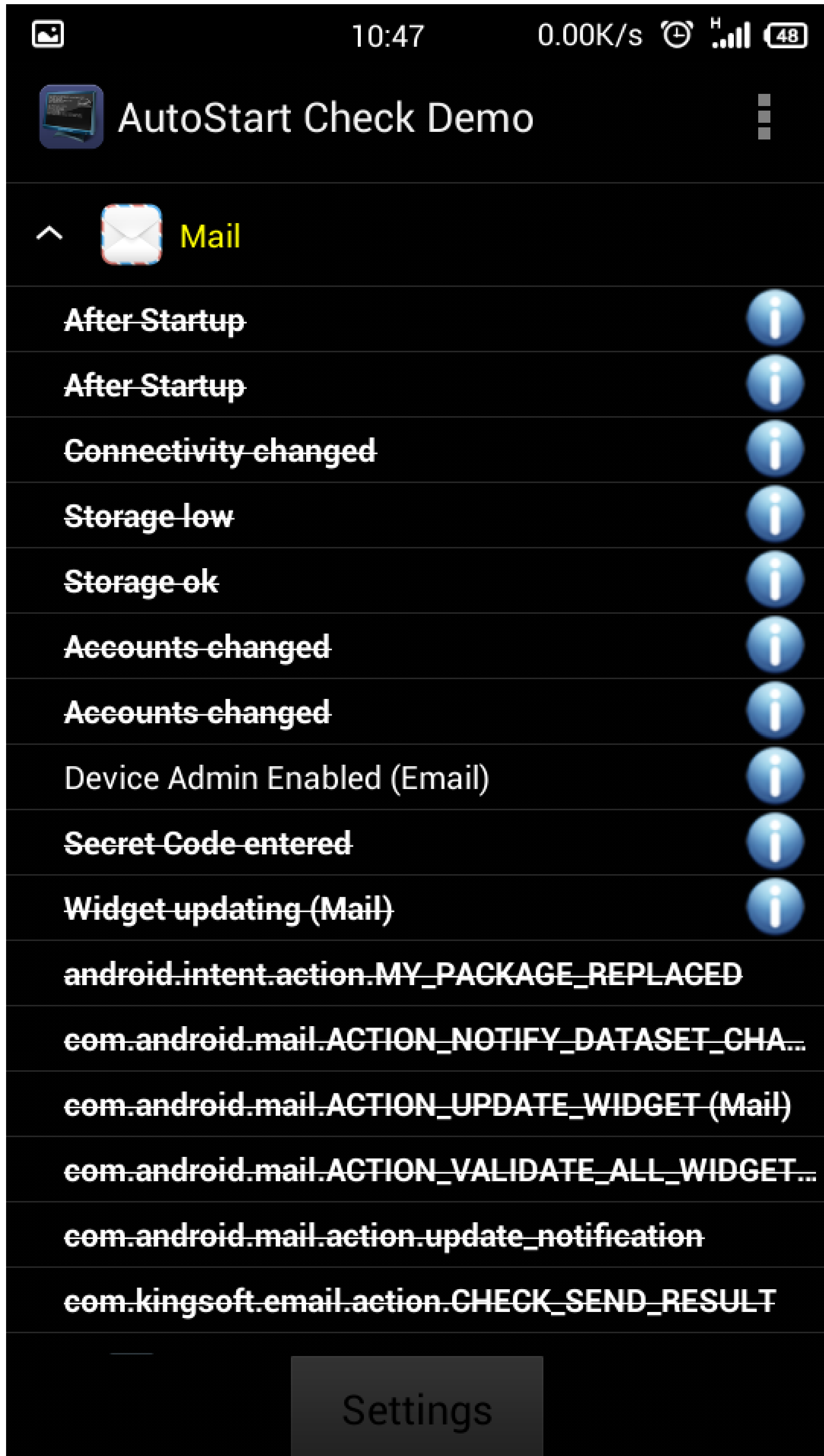
## 32. Link2SD


09:45
0.00K/s
AutoStart Check Demo
Link2SD
After Startup
Application installed
Application removed
Application replaced
Widget updating (Link2SD Clear Cache)
Widget updating (Link2SD Reboot)
com.buak.Link2SD.clearcache.CLEAR
com.buak.Link2SD.clearcache.CLEAR_FROM_SCH...
com.buak.Link2SD.clearcache.REFRESH
com.buak.Link2SD.rebootdialog (Link2SD Reboot)
com.buak.intent.action.LICENSE_RESPONSE
Lumosity
Mail
Maps
Settings

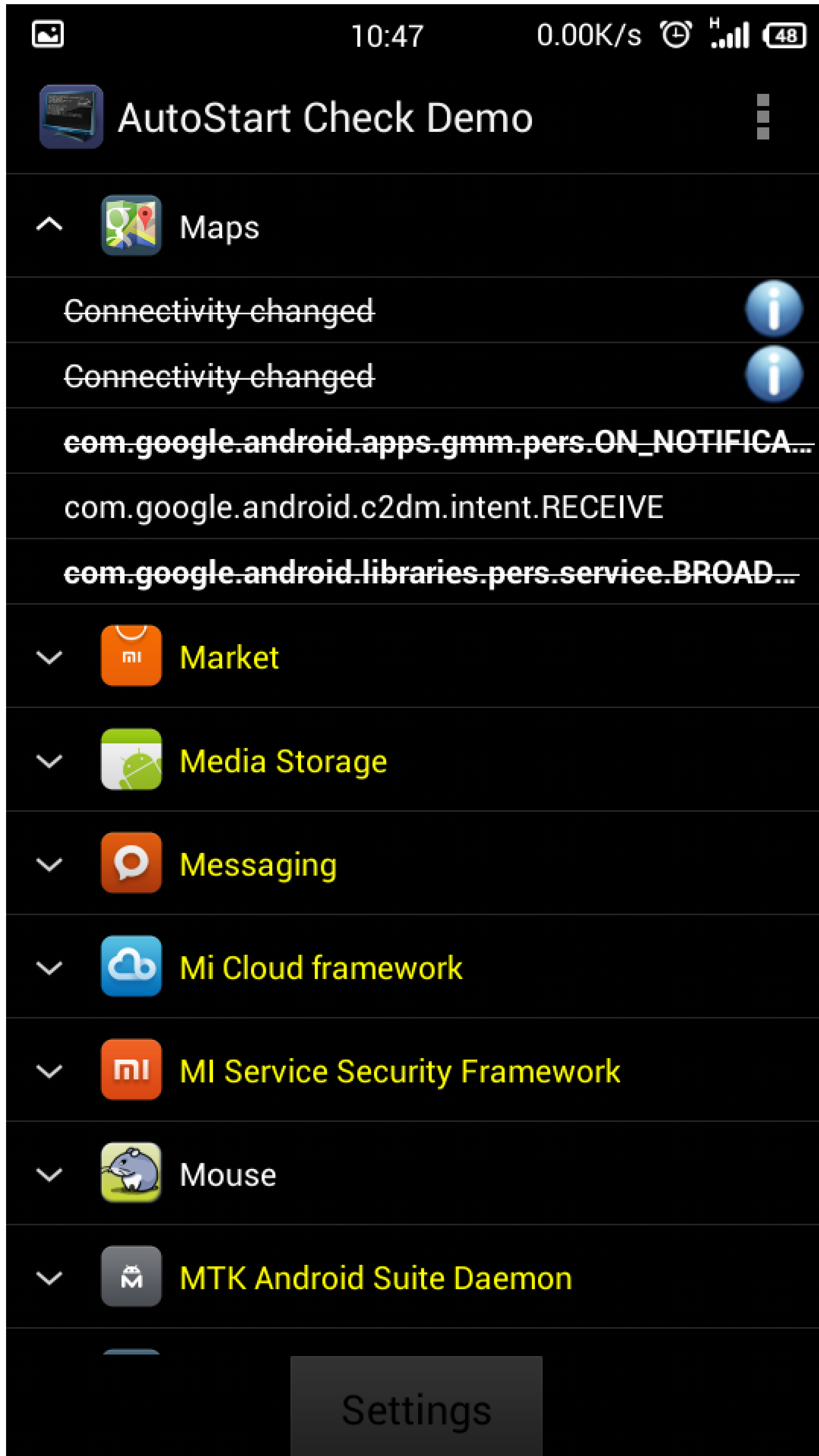
33. Lumosity


10:47
0.00K/s
48
AutoStart Check Demo
Lumosity
After Startup
Connectivity changed (NetworkConnectivit...
com.android.vending.INSTALL_REFERRER
com.google.android.c2dm.intent.RECEIVE
com.google.android.c2dm.intent.REGISTRATION
Mail
Maps
Market
Media Storage
Messaging
Mi Cloud framework
MI Service Security Framework
Settings

# 34. Mail

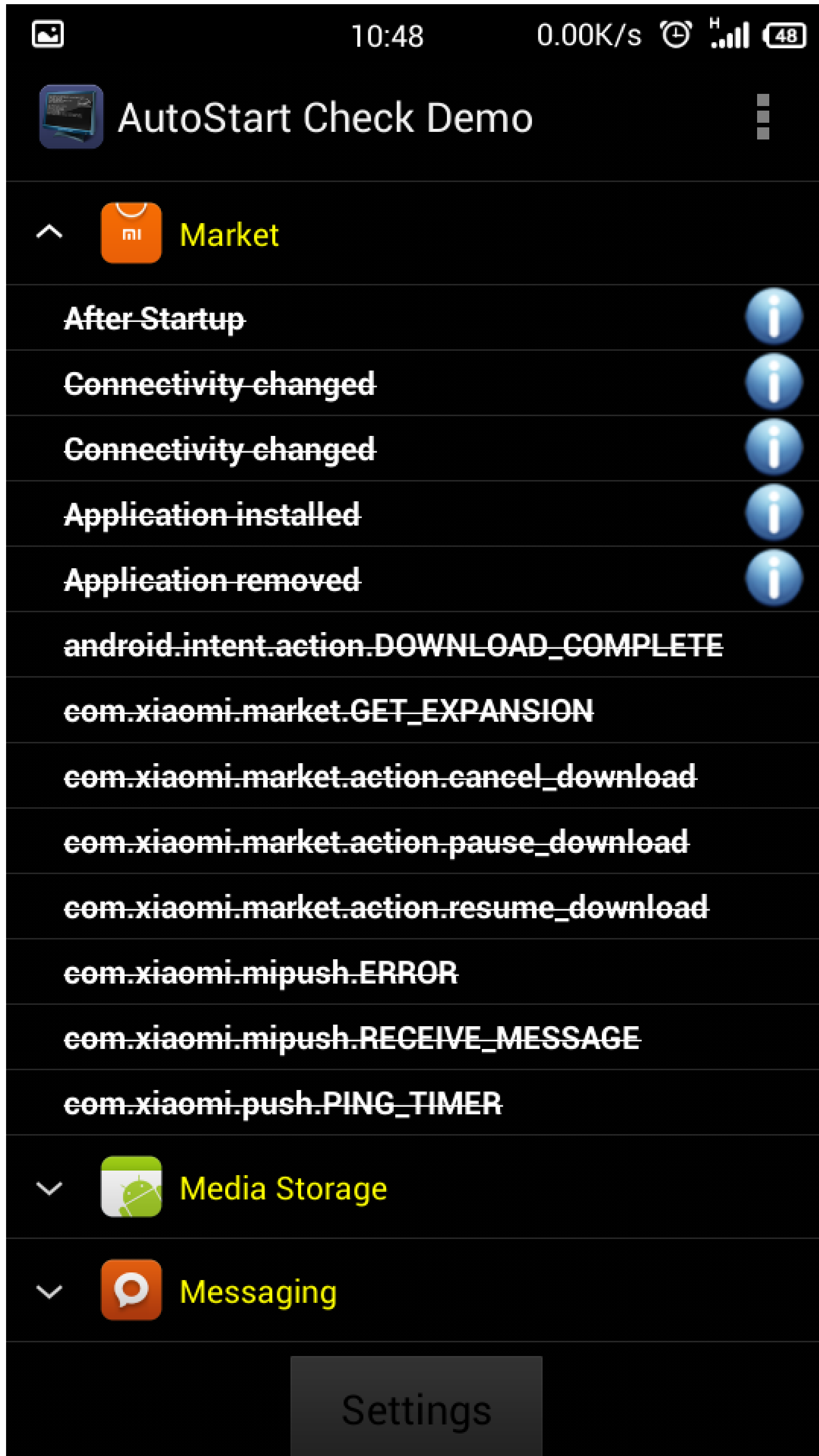

10:47
0.00K/s
48
AutoStart Check Demo
Mail
After Startup
After Startup
Connectivity changed
Storage low
Storage ok
Accounts changed
Accounts changed
Device Admin Enabled (Email)
Secret Code entered
Widget updating (Mail)
android.intent.action.MY_PACKAGE_REPLACED
com.android.mail.ACTION_NOTIFY_DATASET_CHA...
com.android.mail.ACTION_UPDATE_WIDGET (Mail)
com.android.mail.ACTION_VALIDATE_ALL_WIDGET...
com.android.mail.action.update_notification
com.kingsoft.email.action.CHECK_SEND_RESULT
Settings

35. Maps

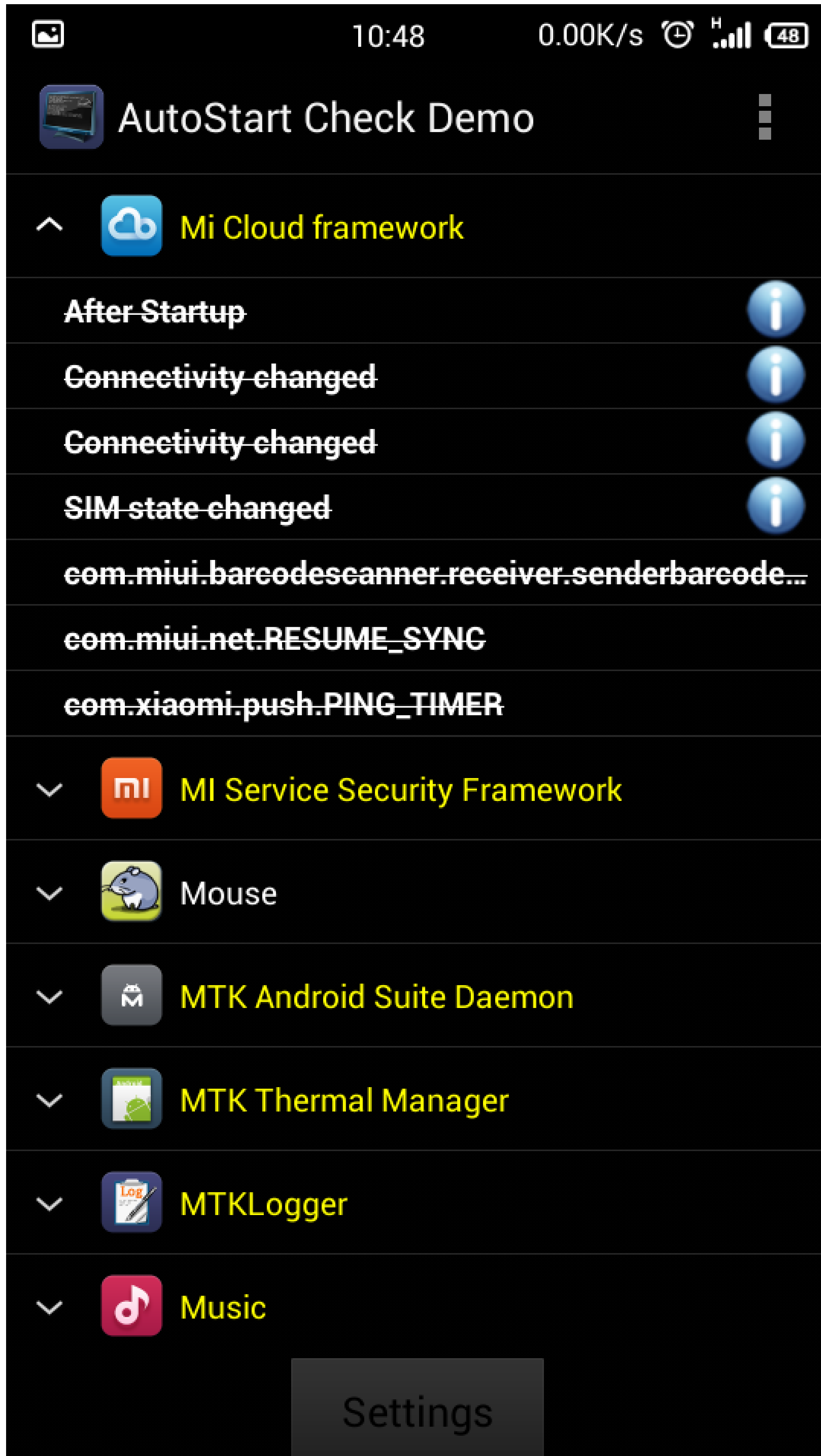


10:47
0.00K/s
48
AutoStart Check Demo
Maps
Connectivity changed
Connectivity changed
com.google.android.apps.gmm.pers.ON_NOTIFICA...
com.google.android.c2dm.intent.RECEIVE
com.google.android.libraries.pers.service.BROAD...
Market
Media Storage
Messaging
Mi Cloud framework
MI Service Security Framework
Mouse
MTK Android Suite Daemon
Settings

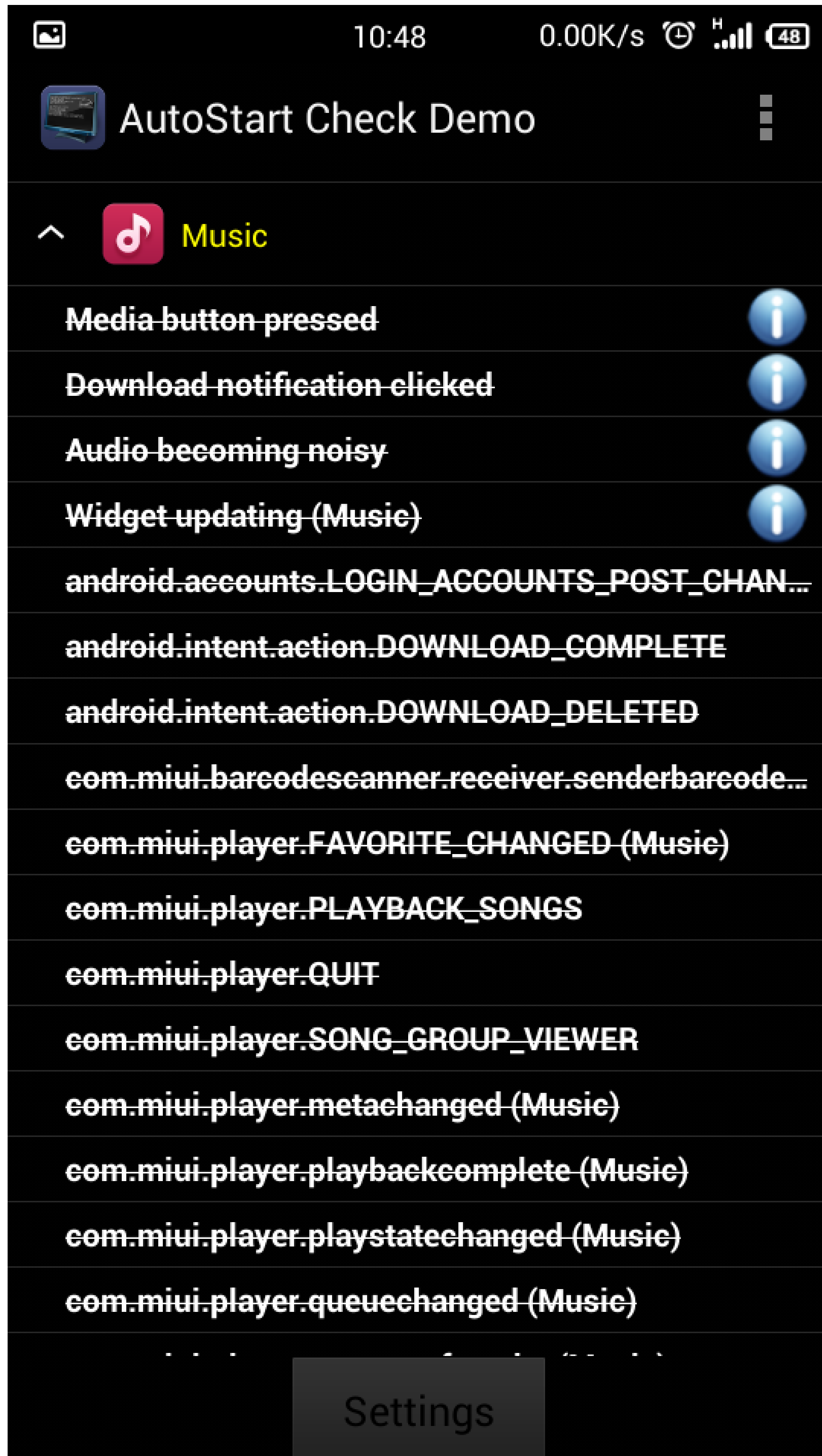
# 36. Market

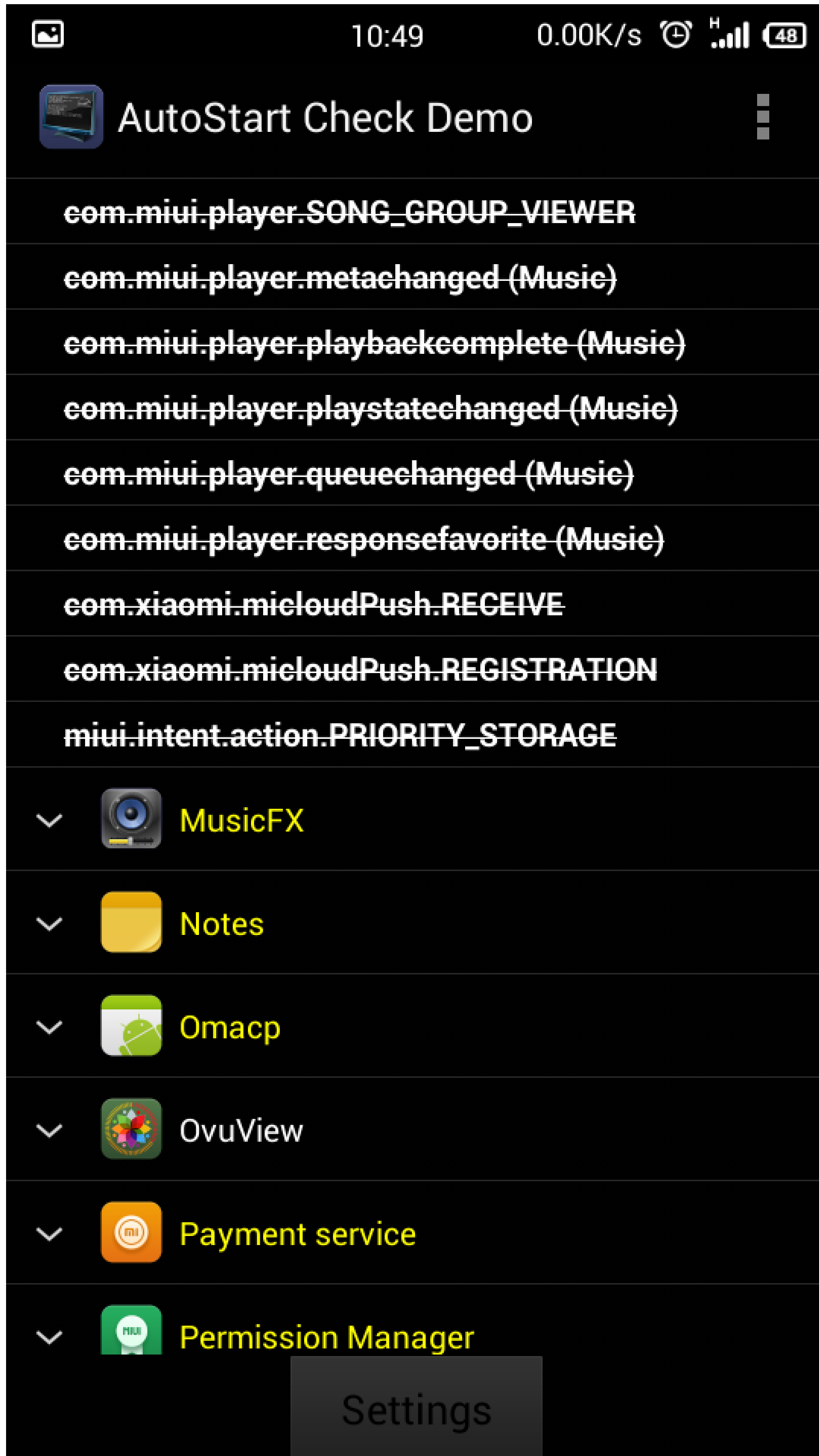

10:48
0.00K/s
48
AutoStart Check Demo
Market
After Startup
Connectivity changed
Connectivity changed
Application installed
Application removed
android.intent.action.DOWNLOAD_COMPLETE
com.xiaomi.market.GET_EXPANSION
com.xiaomi.market.action.cancel_download
com.xiaomi.market.action.pause_download
com.xiaomi.market.action.resume_download
com.xiaomi.mipush.ERROR
com.xiaomi.mipush.RECEIVE_MESSAGE
com.xiaomi.push.PING_TIMER
Media Storage
Messaging
Settings

37. Mi Cloud framework

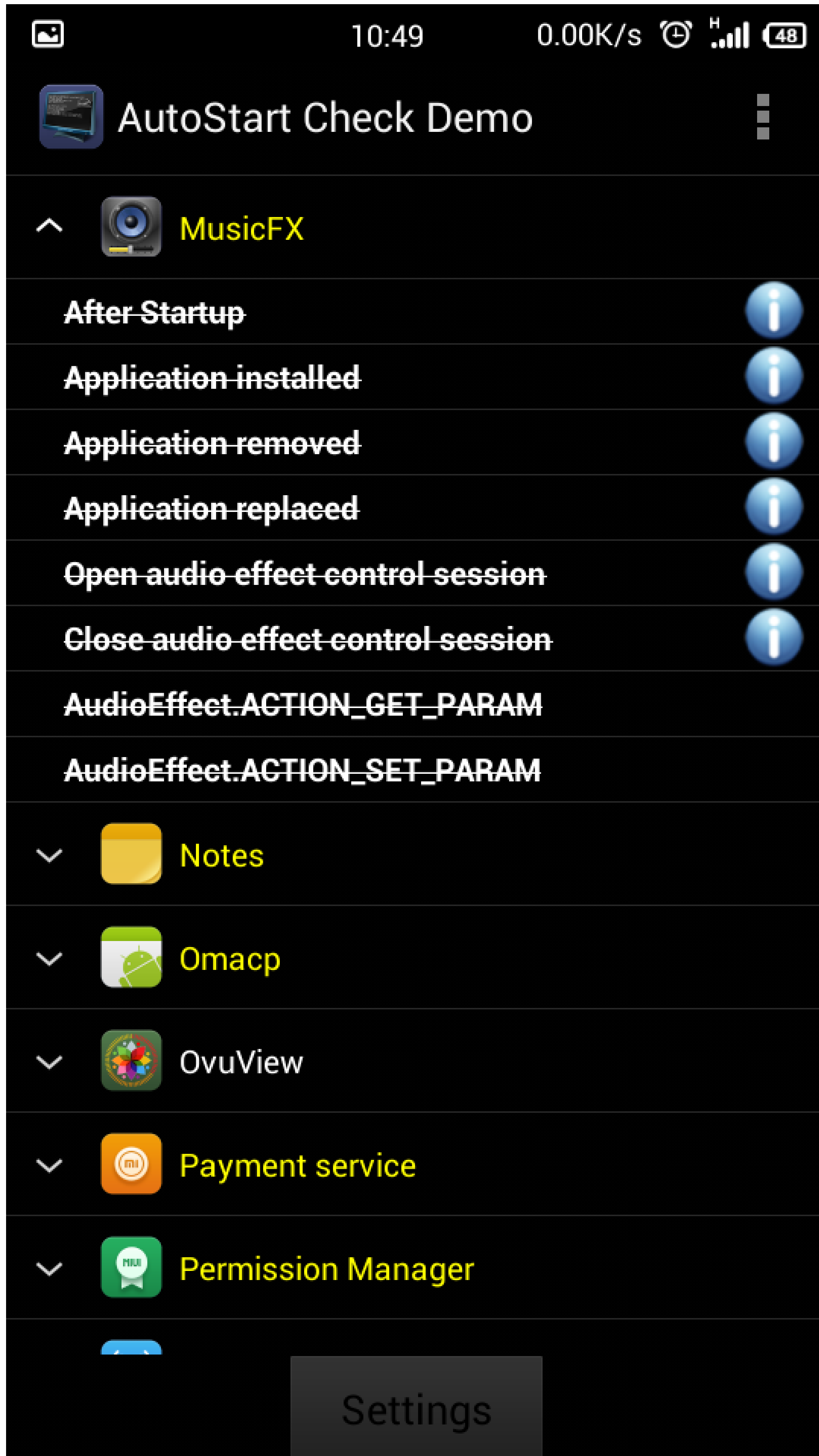


38. Music (hlm. 1/2)

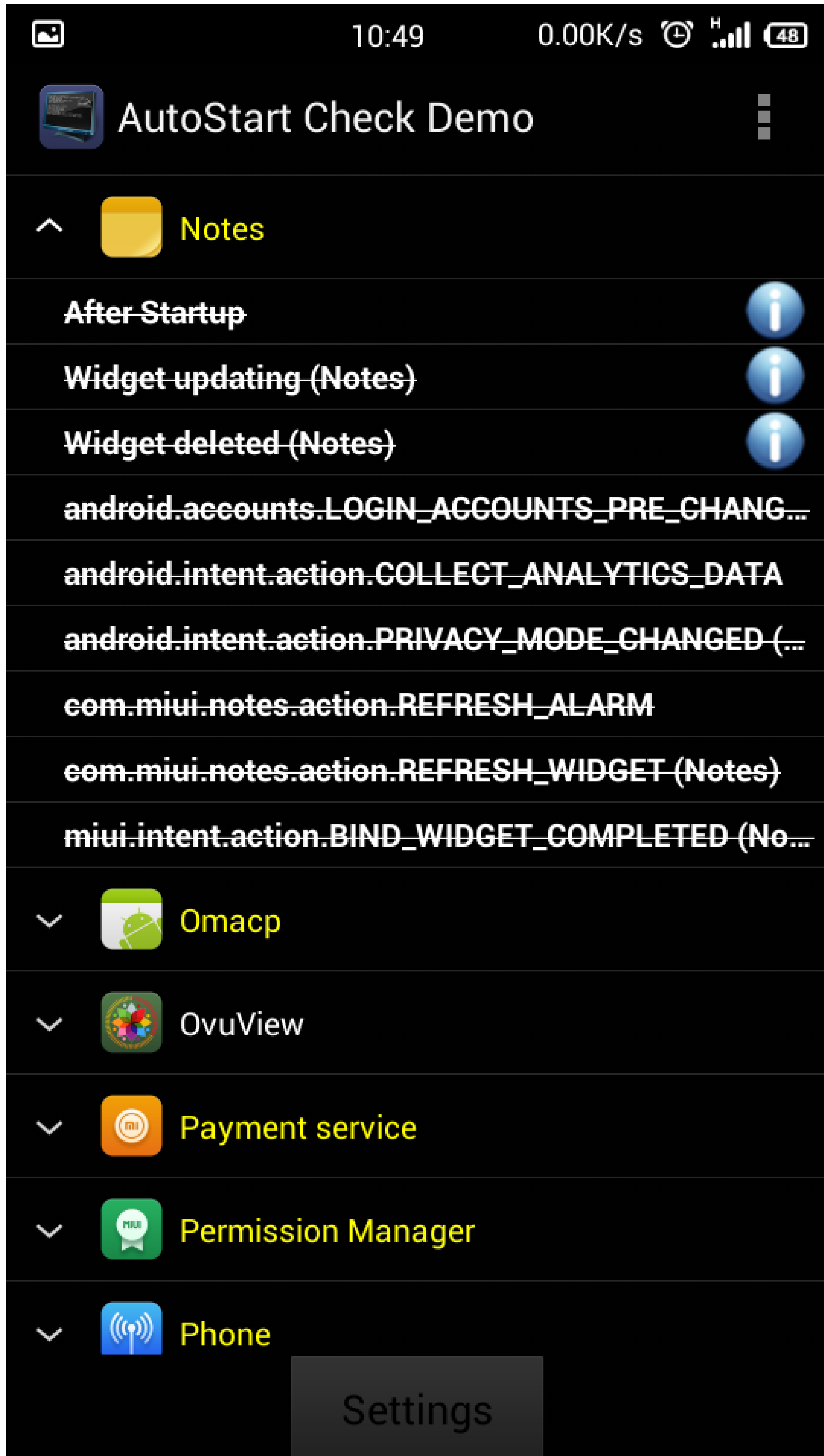



10:49
0.00K/s
48
AutoStart Check Demo
com.miui.player.SONG_GROUP_VIEWER
com.miui.player.metachanged (Music)
com.miui.player.playbackcomplete (Music)
com.miui.player.playstatechanged (Music)
com.miui.player.queuechanged (Music)
com.miui.player.responsefavorite (Music)
com.xiaomi.micloudPush.RECEIVE
com.xiaomi.micloudPush.REGISTRATION
miui.intent.action.PRIORITY_STORAGE
MusicFX
Notes
Omacp
OvuView
Payment service
Permission Manager
Settings

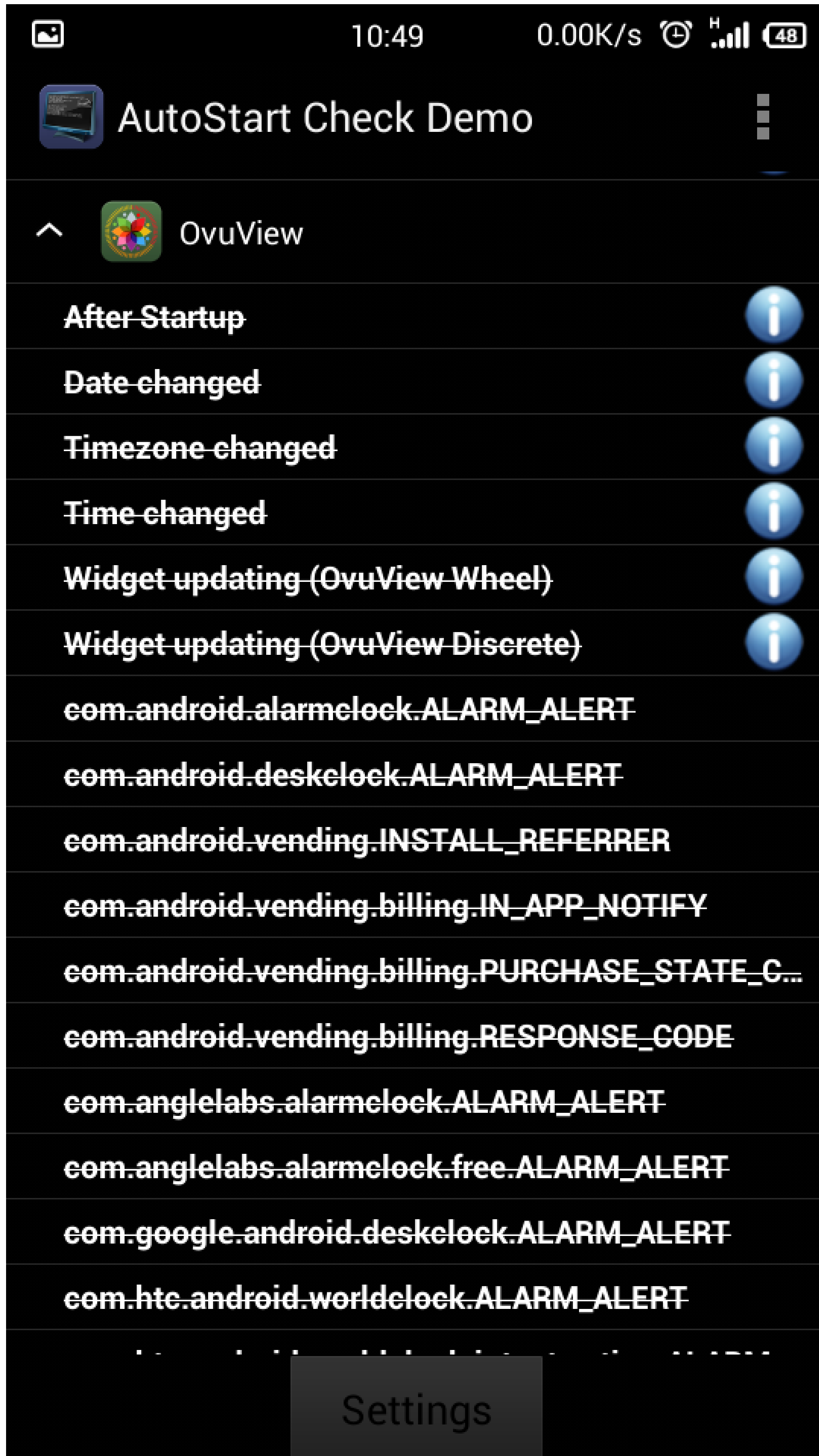
39. MusicFX


10:49
0.00K/s
48
AutoStart Check Demo
MusicFX
After Startup
Application installed
Application removed
Application replaced
Open audio effect control session
Close audio effect control session
AudioEffect.ACTION_GET_PARAM
AudioEffect.ACTION_SET_PARAM
Notes
Omacp
OvuView
Payment service
Permission Manager
Settings

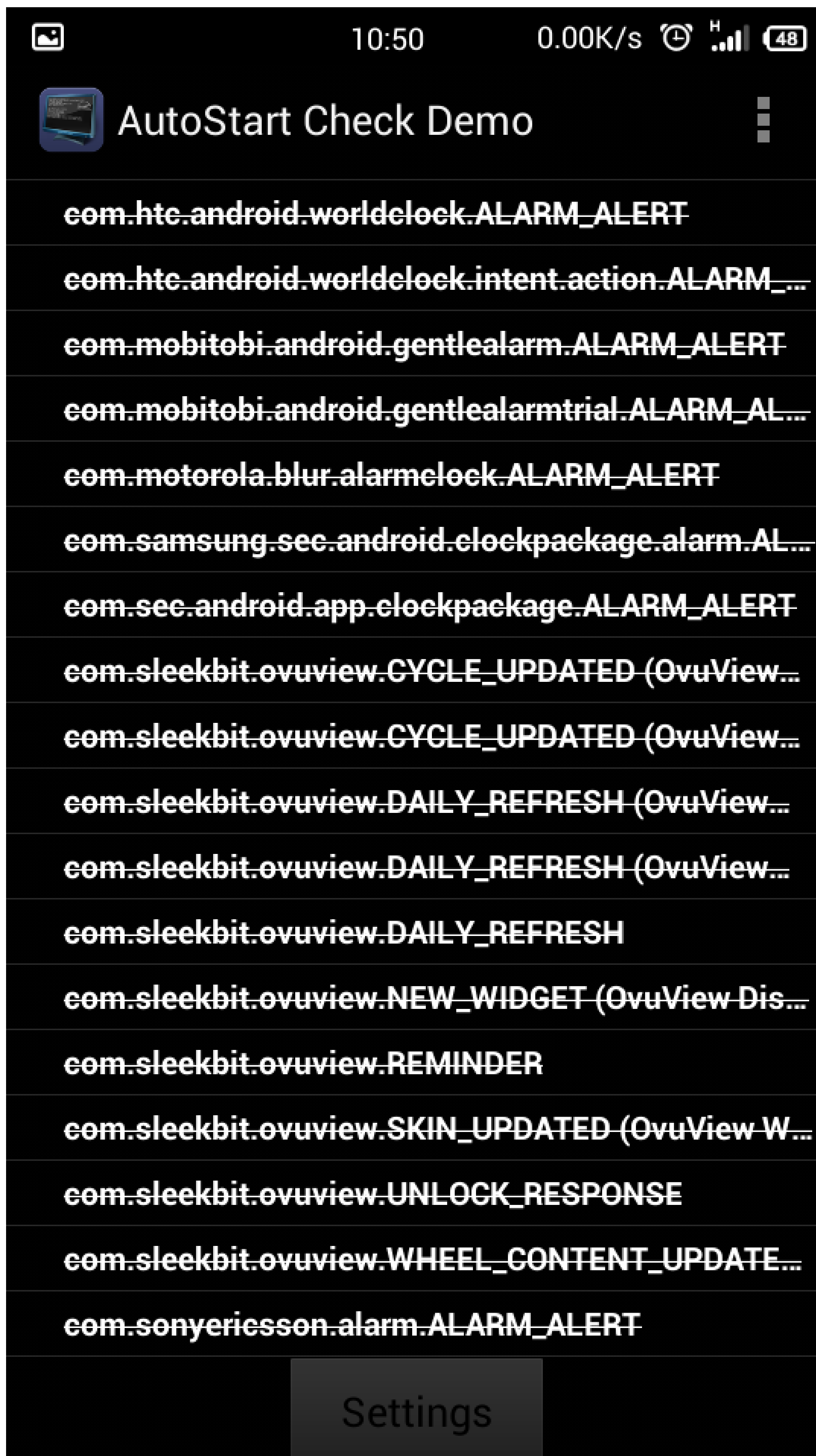
# 40. Notes


10:49
0.00K/s
48
AutoStart Check Demo
Notes
After Startup
Widget updating (Notes)
Widget deleted (Notes)
android.accounts.LOGIN_ACCOUNTS_PRE_CHANG...
android.intent.action.COLLECT_ANALYTICS_DATA
android.intent.action.PRIVACY_MODE_CHANGED (...
com.miui.notes.action.REFRESH_ALARM
com.miui.notes.action.REFRESH_WIDGET (Notes)
miui.intent.action.BIND_WIDGET_COMPLETED (No...
Omacp
OvuView
Payment service
Permission Manager
Phone
Settings

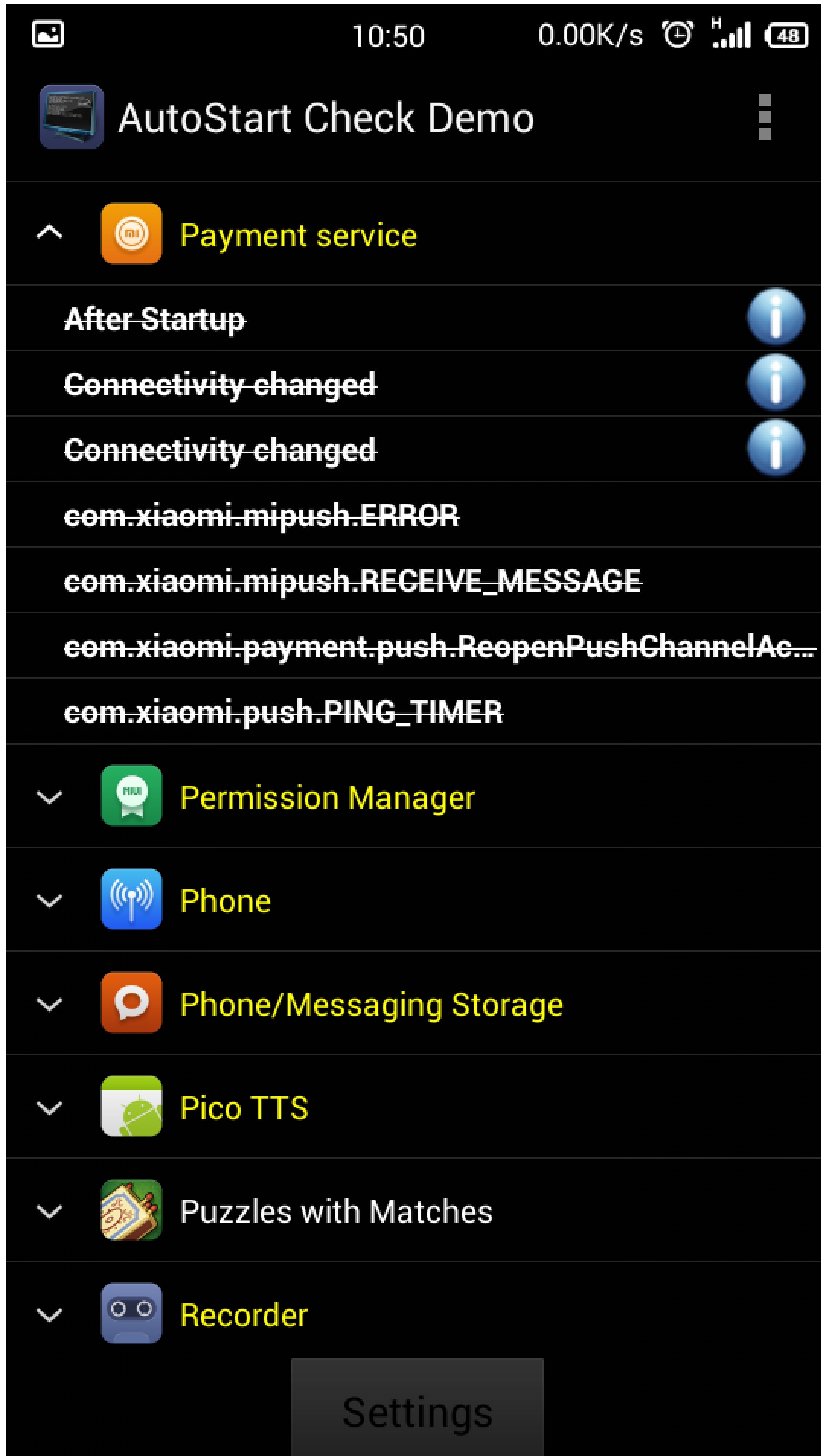
# 41. OvuView (hlm. 1/2)



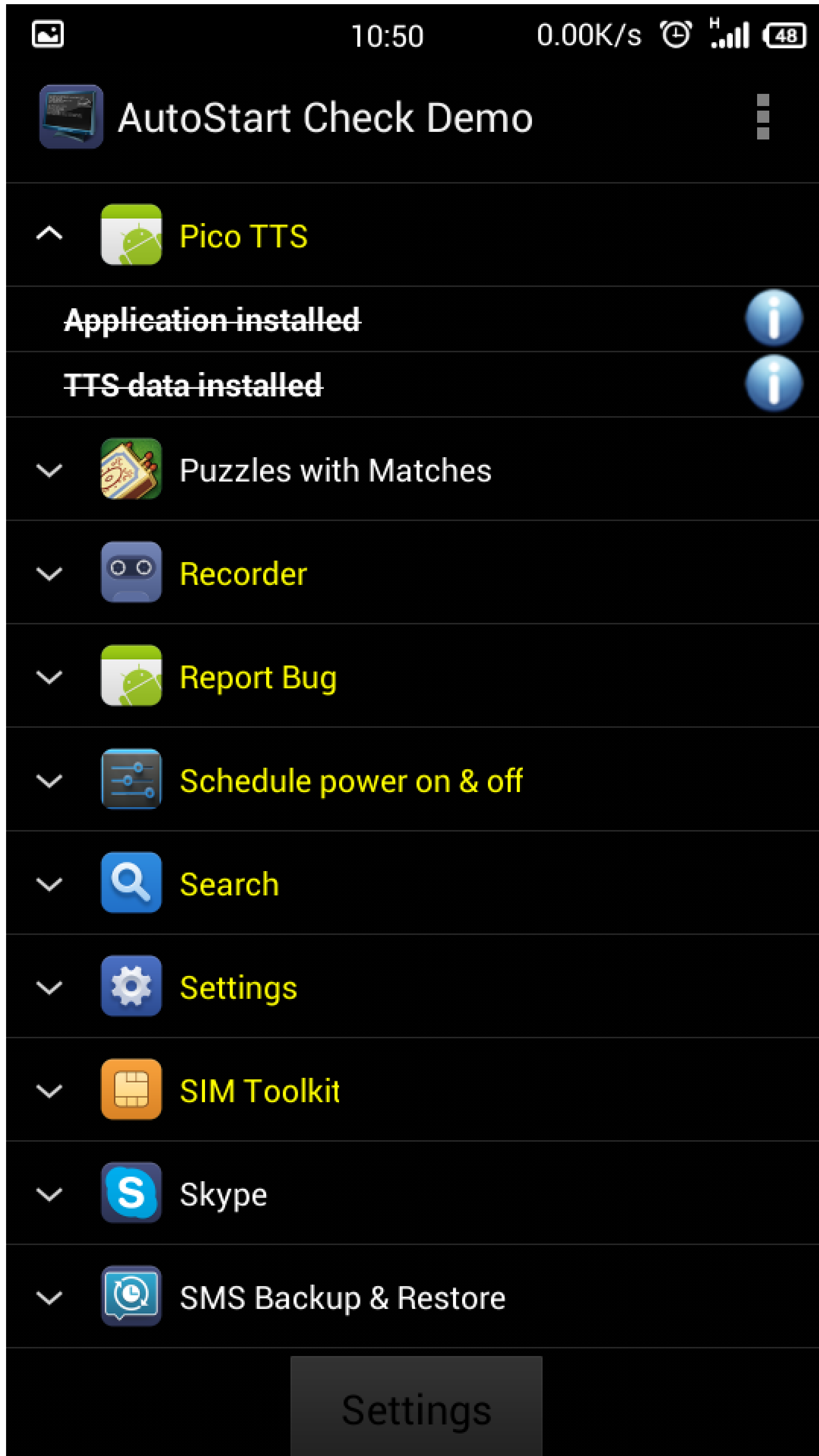
OvuView (hlm. 2/2)



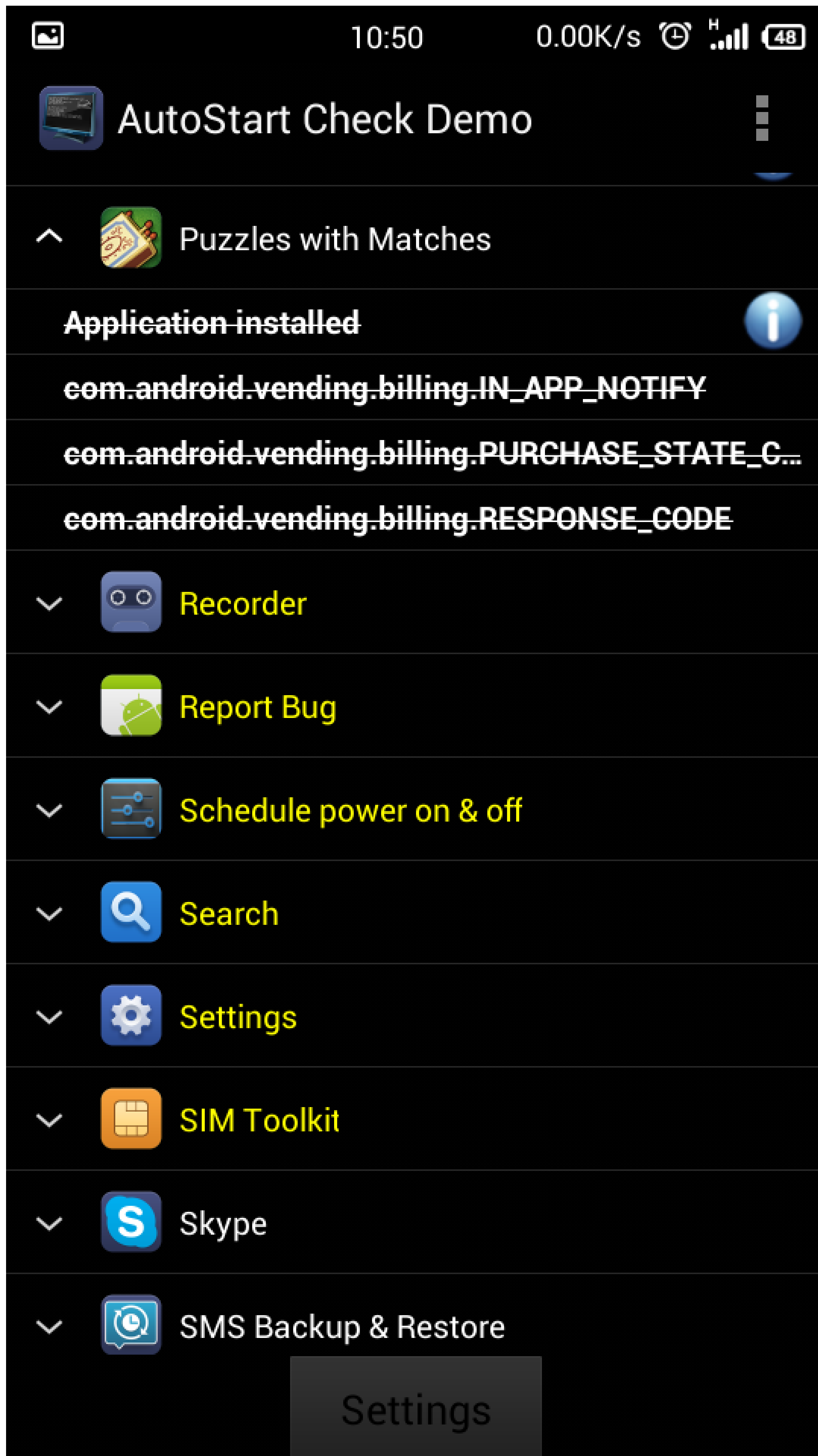
42. Payment service



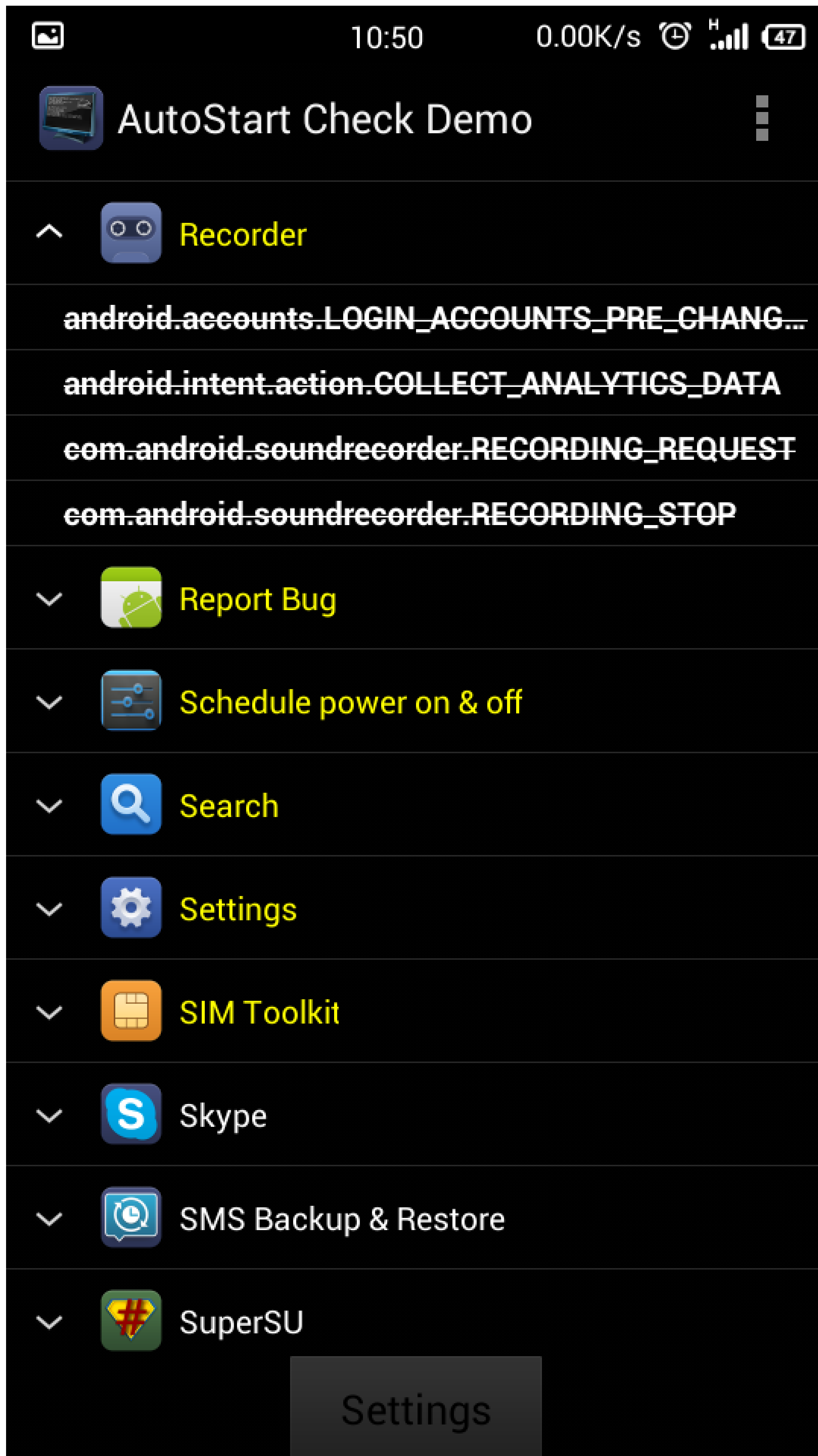
# 43. Pico TTS


10:50
0.00K/s
48
AutoStart Check Demo
Pico TTS
Application installed
TTS data installed
Puzzles with Matches
Recorder
Report Bug
Schedule power on & off
Search
Settings
SIM Toolkit
Skype
SMS Backup & Restore
Settings

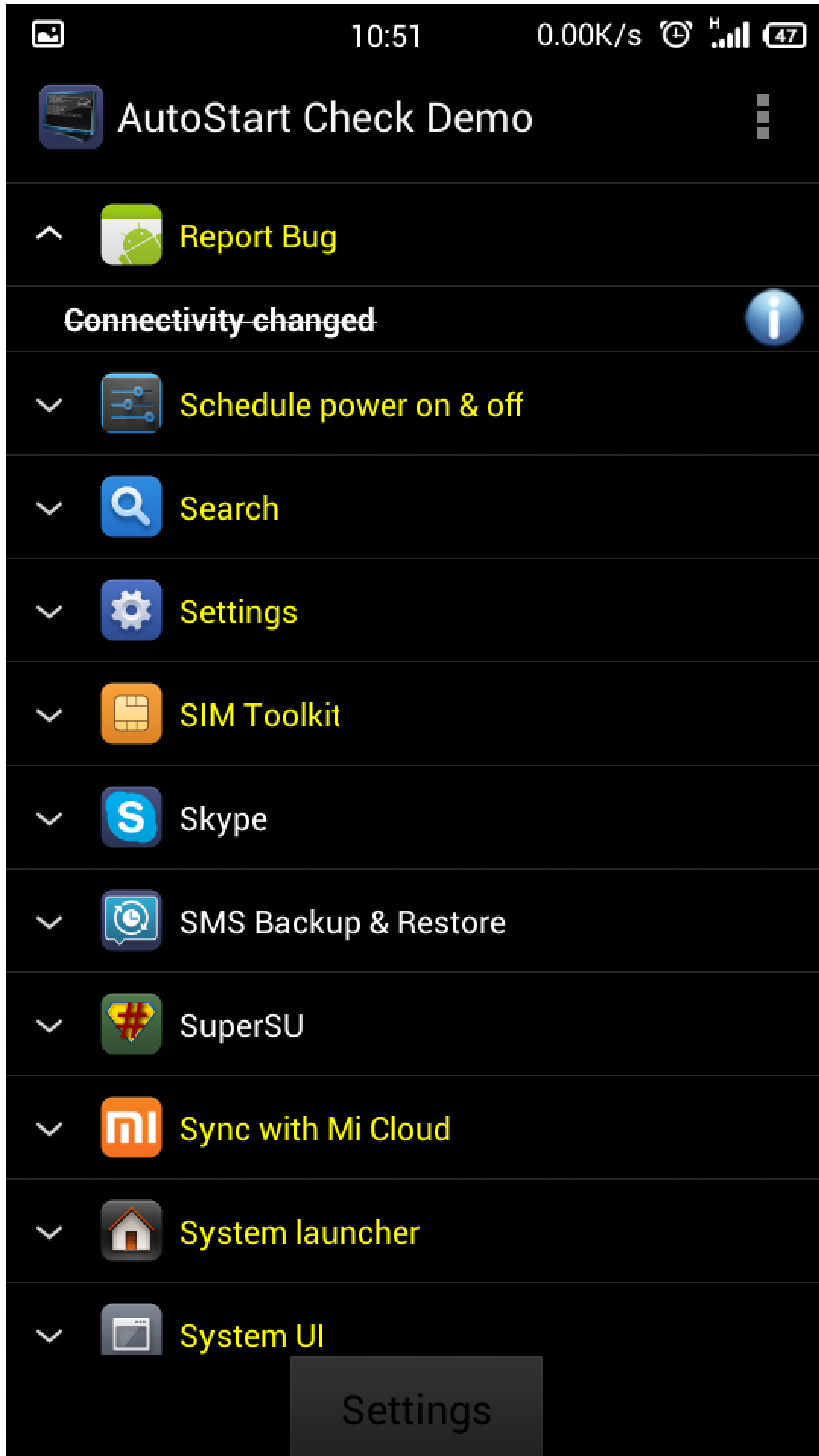
# 44. Puzzles with Matches



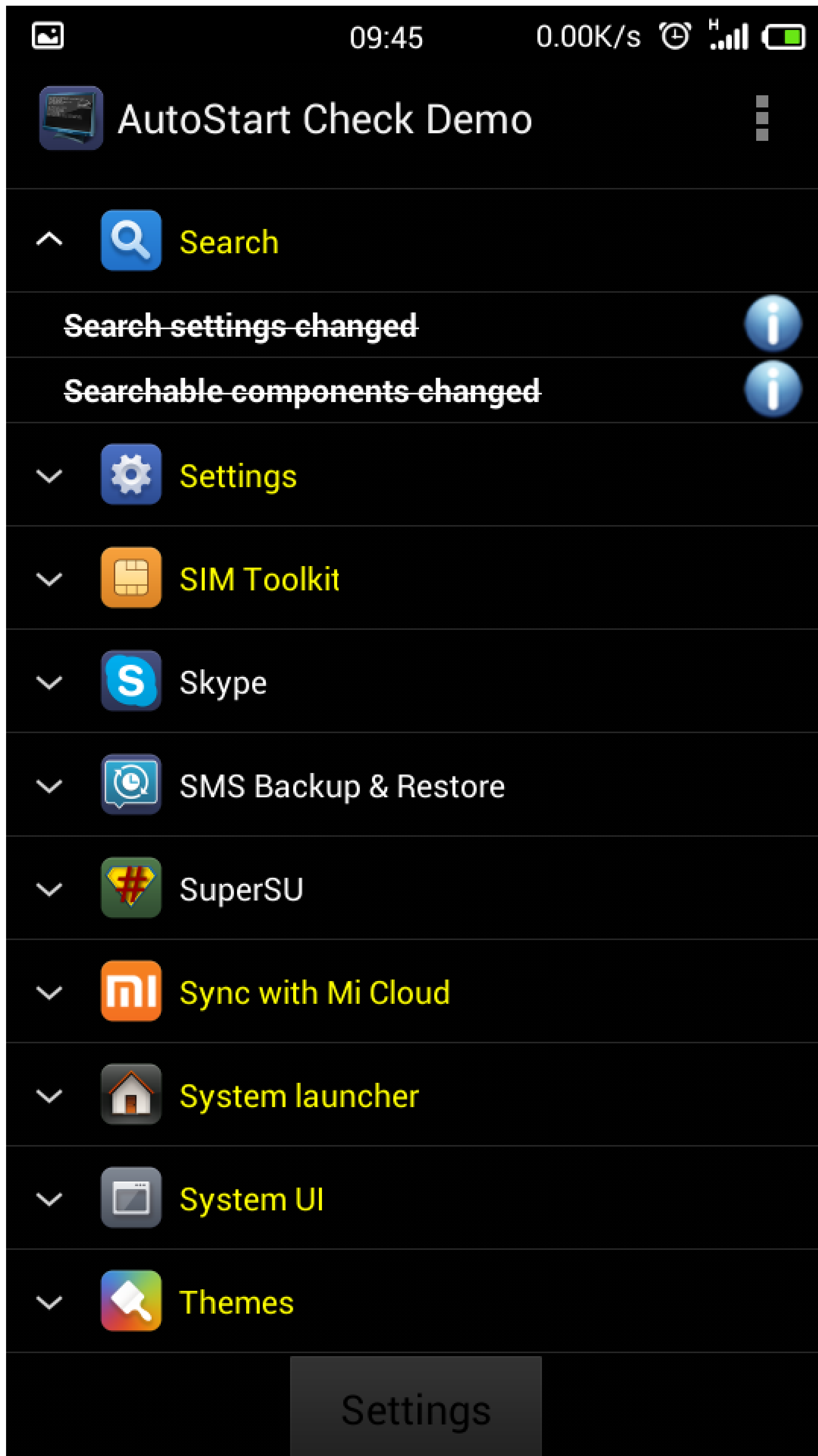
45. Recorder


10:50
0.00K/s
47
AutoStart Check Demo
Recorder
android.accounts.LOGIN_ACCOUNTS_PRE_CHANG...
android.intent.action.COLLECT_ANALYTICS_DATA
com.android.soundrecorder.RECORDING_REQUEST
com.android.soundrecorder.RECORDING_STOP
Report Bug
Schedule power on & off
Search
Settings
SIM Toolkit
Skype
SMS Backup & Restore
SuperSU
Settings

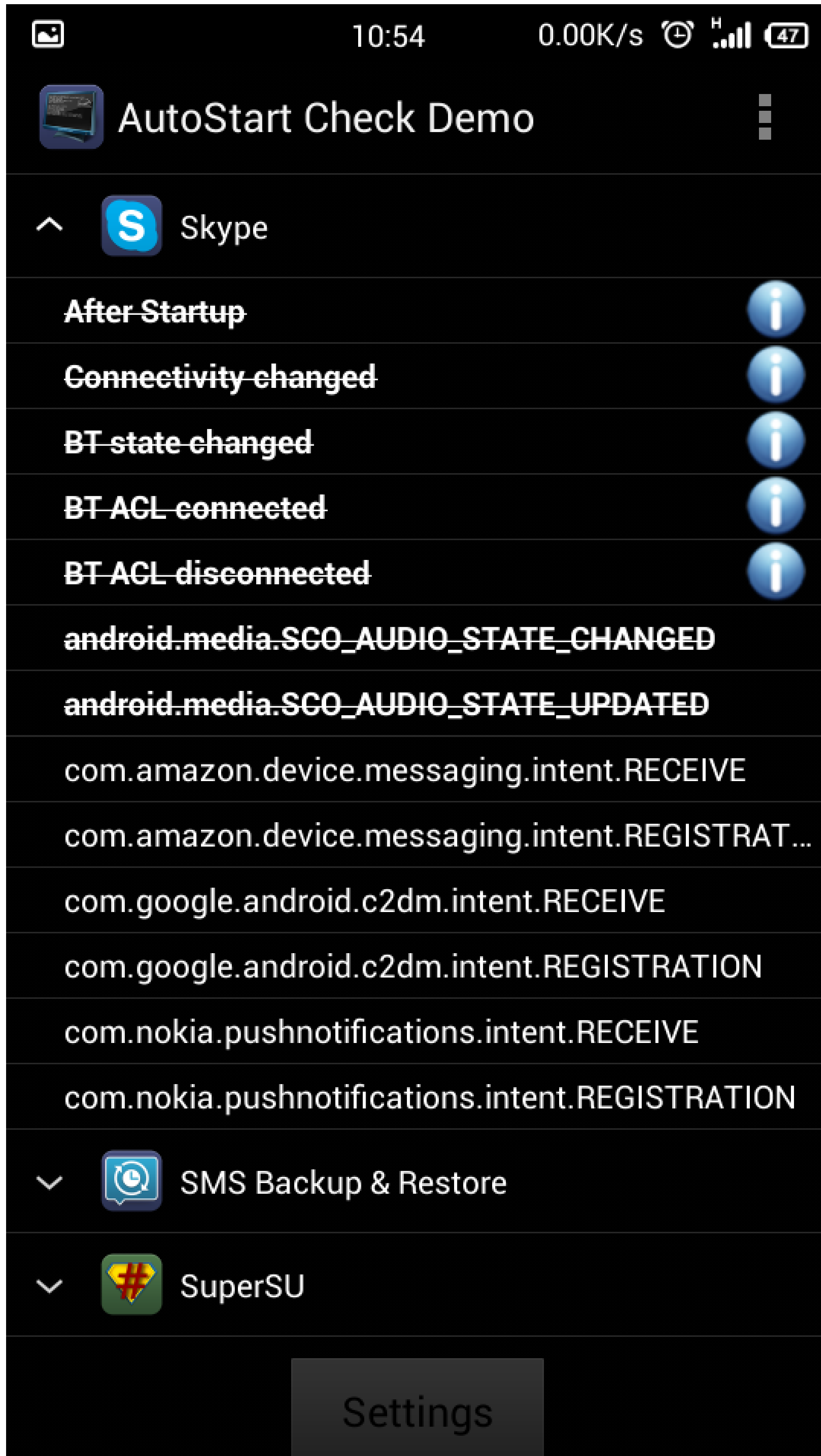
46. Report Bug



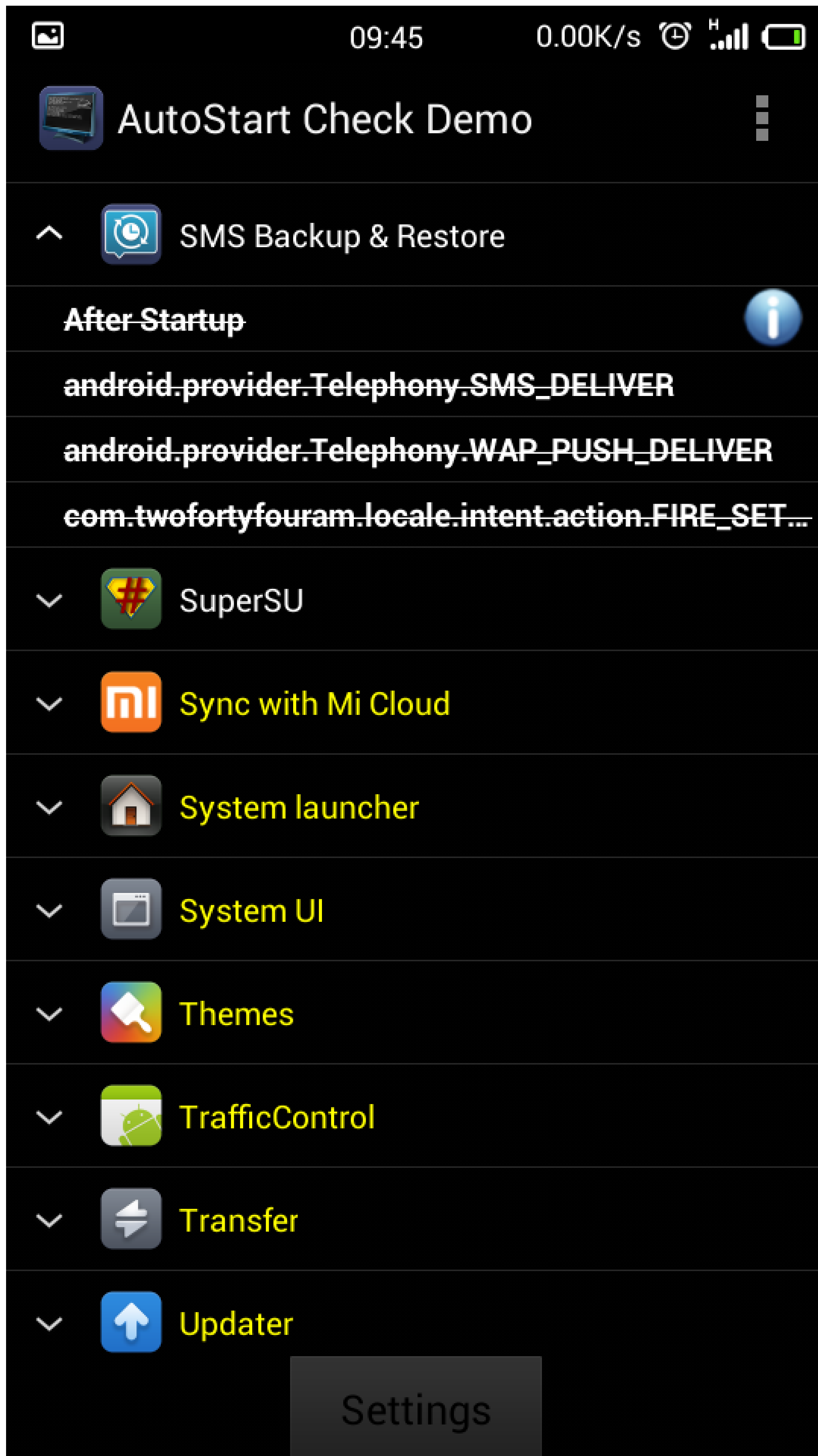
# 47. Search


09:45
0.00K/s
AutoStart Check Demo
Search
~~Search settings changed~~
~~Searchable components changed~~
Settings
SIM Toolkit
Skype
SMS Backup & Restore
SuperSU
Sync with Mi Cloud
System launcher
System UI
Themes
Settings

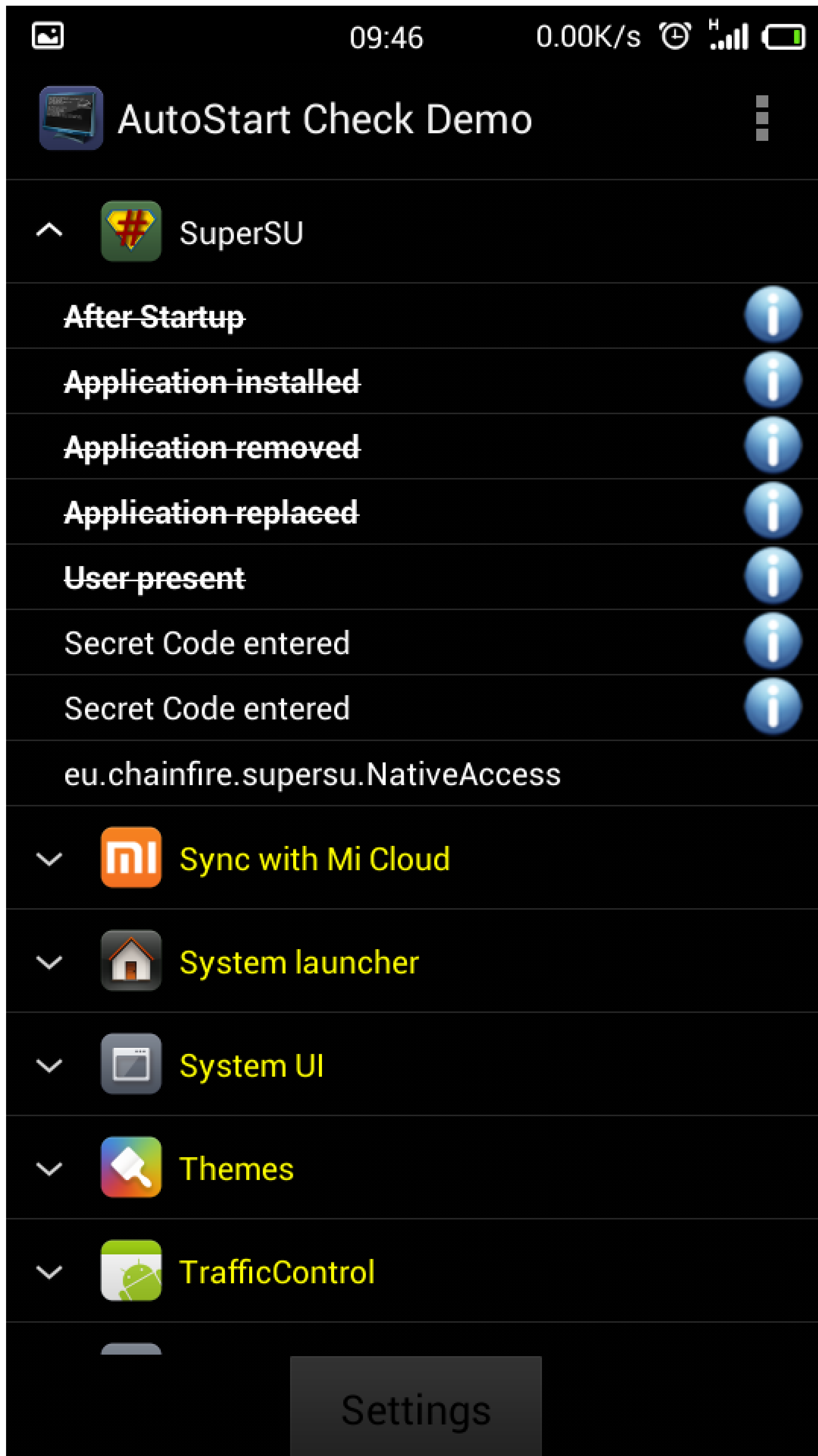
## 48. Skype


10:54
0.00K/s
47
AutoStart Check Demo
Skype
After Startup
Connectivity changed
BT state changed
BT ACL connected
BT ACL disconnected
android.media.SCO_AUDIO_STATE_CHANGED
android.media.SCO_AUDIO_STATE_UPDATED
com.amazon.device.messaging.intent.RECEIVE
com.amazon.device.messaging.intent.REGISTRAT...
com.google.android.c2dm.intent.RECEIVE
com.google.android.c2dm.intent.REGISTRATION
com.nokia.pushnotifications.intent.RECEIVE
com.nokia.pushnotifications.intent.REGISTRATION
SMS Backup & Restore
SuperSU
Settings

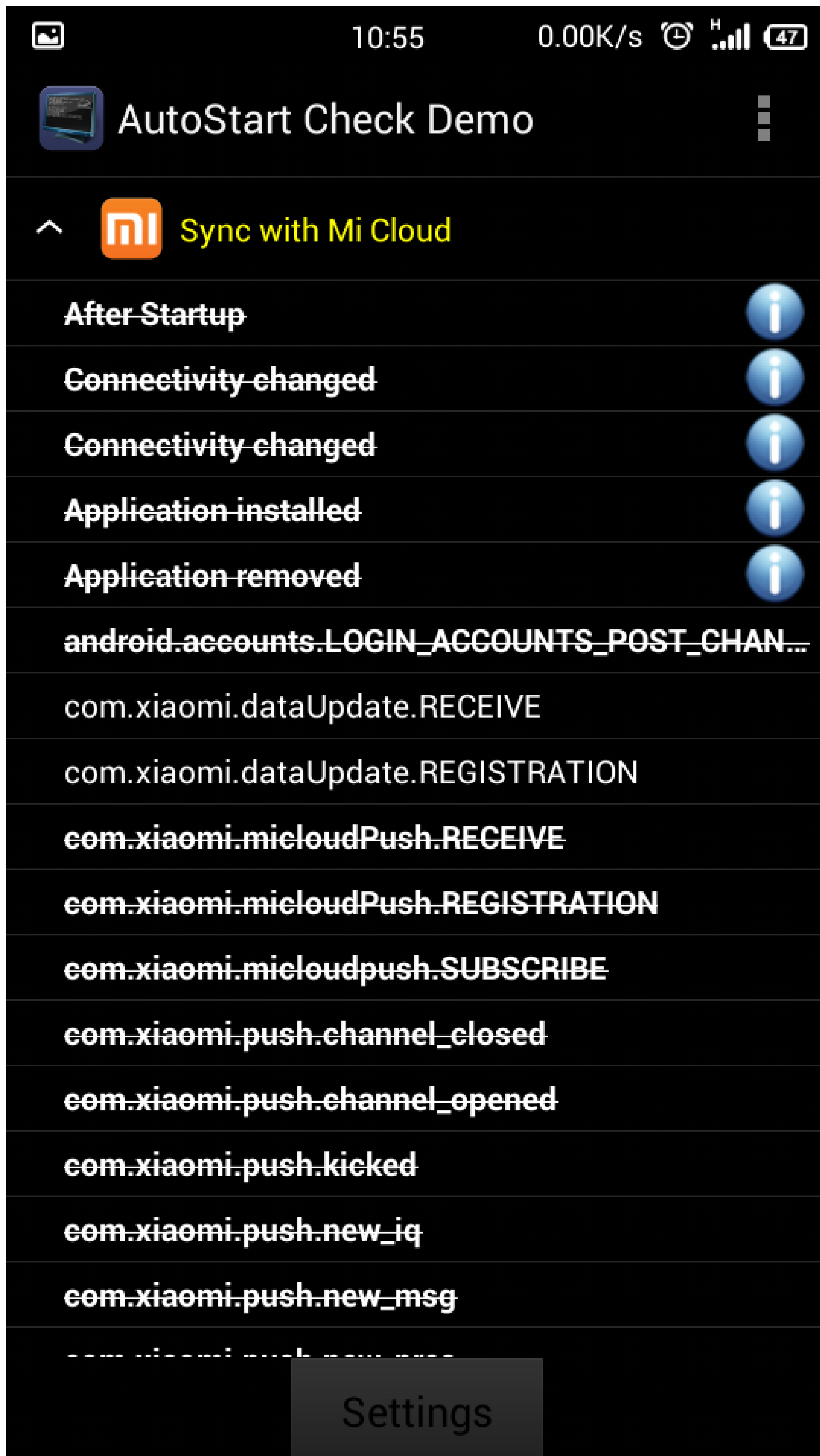
49. SMS Backup and Restore



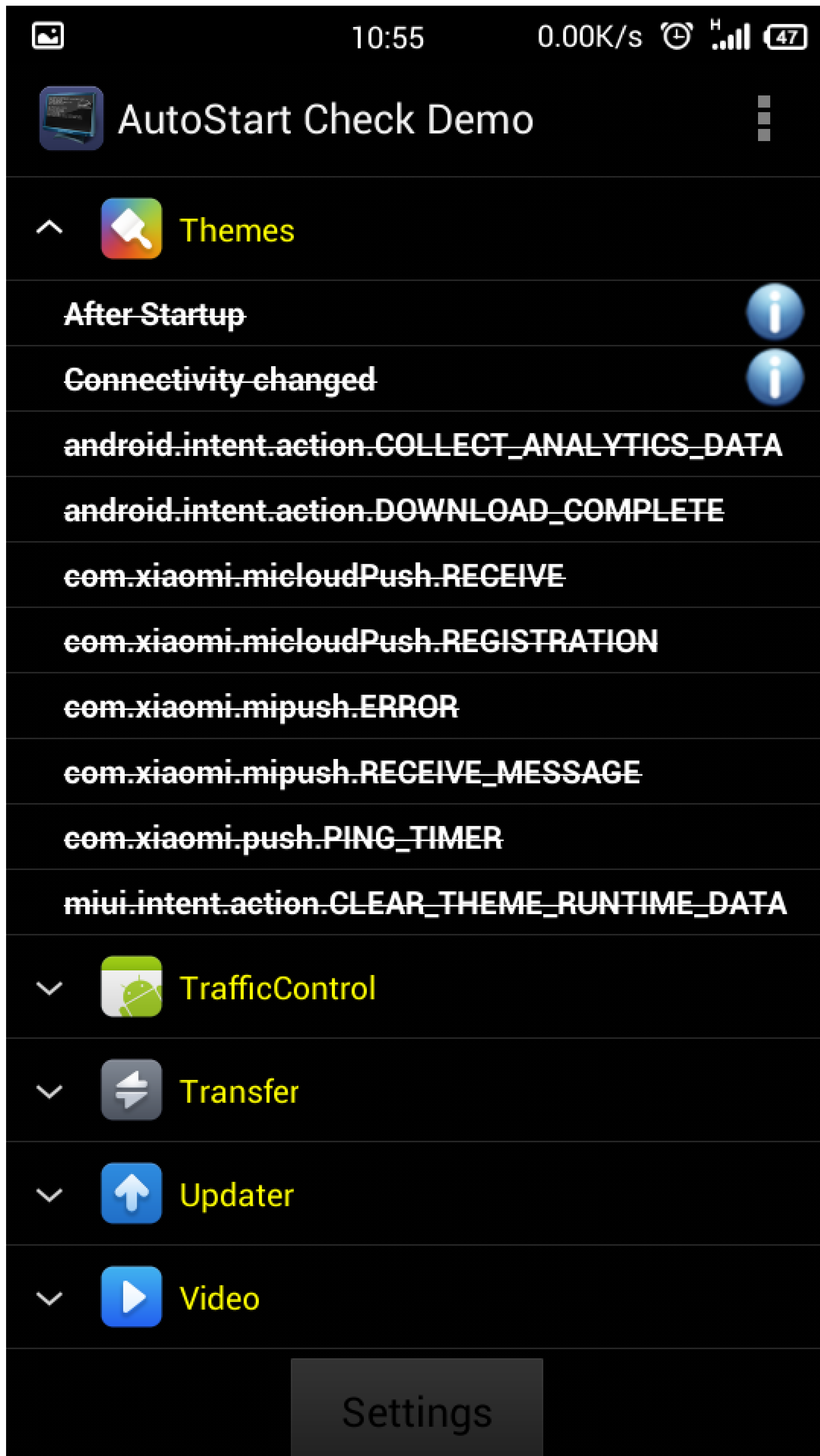
50. SuperSU


09:46
0.00K/s
AutoStart Check Demo
SuperSU
After Startup
Application installed
Application removed
Application replaced
User present
Secret Code entered
Secret Code entered
eu.chainfire.supersu.NativeAccess
Sync with Mi Cloud
System launcher
System UI
Themes
TrafficControl
Settings

51. Sync with Mi Cloud

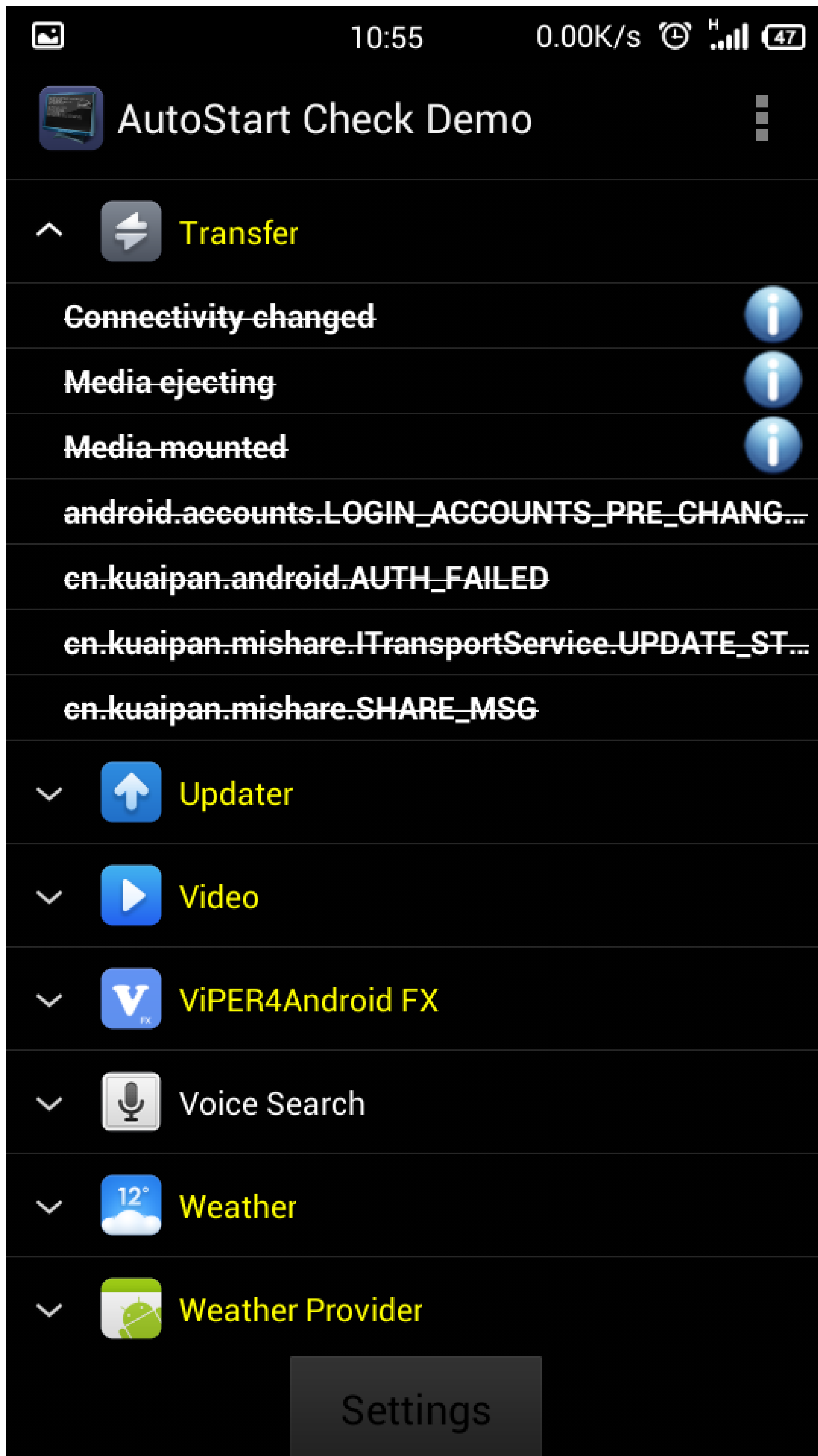


# 52. Themes

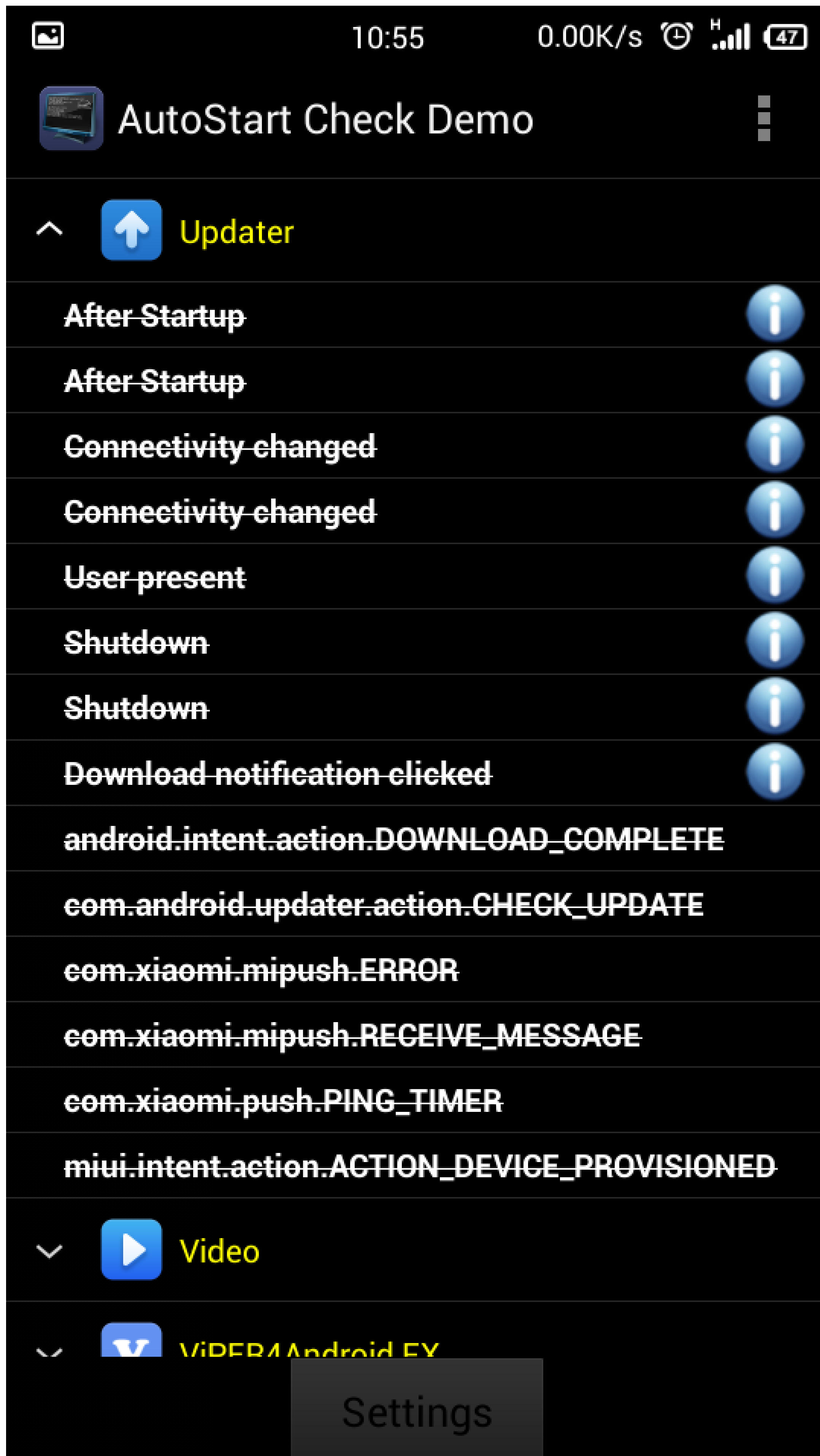


10:55
0.00K/s
47
AutoStart Check Demo
Themes
After Startup
Connectivity changed
android.intent.action.COLLECT_ANALYTICS_DATA
android.intent.action.DOWNLOAD_COMPLETE
com.xiaomi.micloudPush.RECEIVE
com.xiaomi.micloudPush.REGISTRATION
com.xiaomi.mipush.ERROR
com.xiaomi.mipush.RECEIVE_MESSAGE
com.xiaomi.push.PING_TIMER
miui.intent.action.CLEAR_THEME_RUNTIME_DATA
TrafficControl
Transfer
Updater
Video
Settings

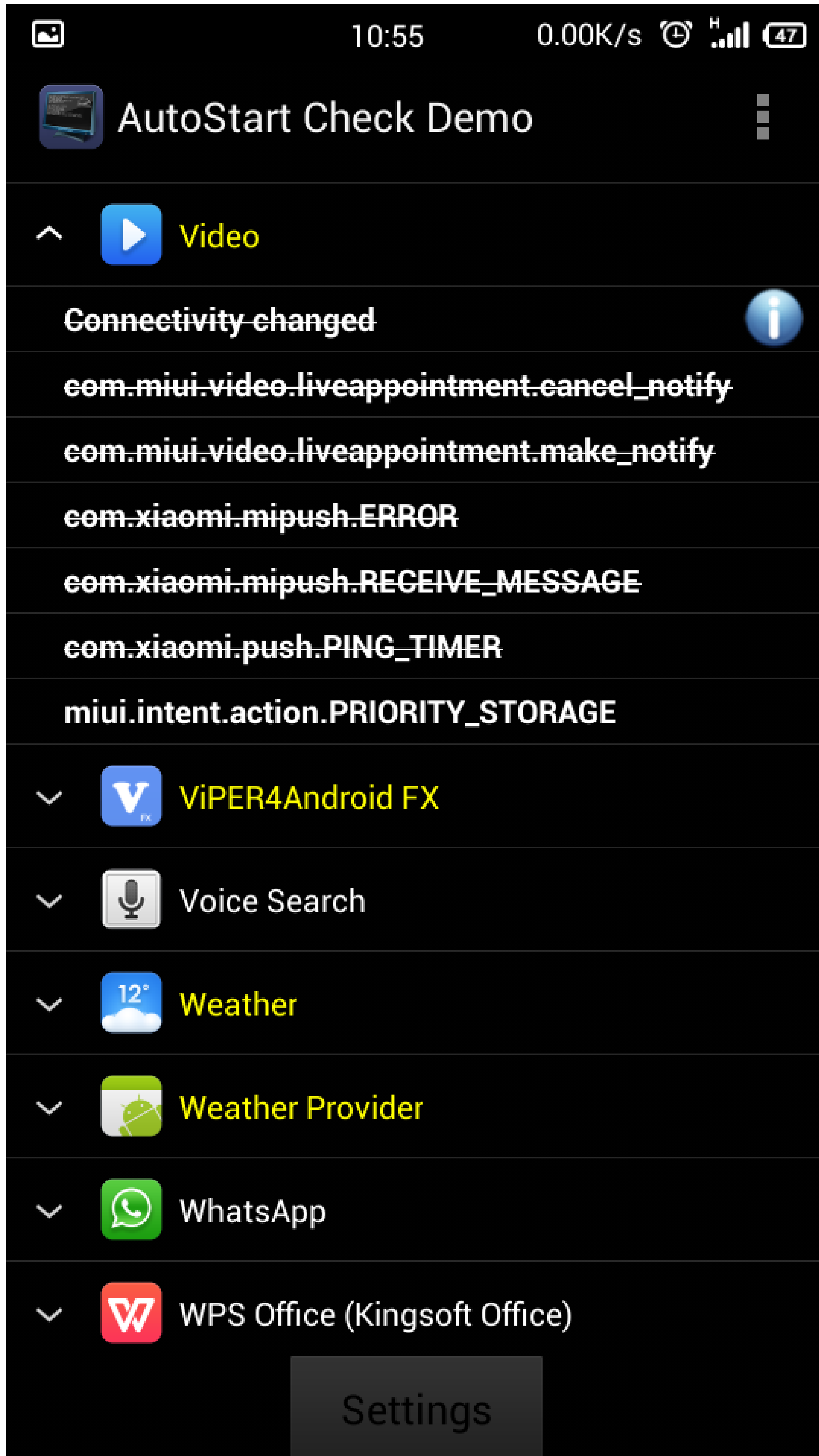
53. Transfer


10:55
0.00K/s
47
AutoStart Check Demo
Transfer
Connectivity changed
Media ejecting
Media mounted
android.accounts.LOGIN_ACCOUNTS_PRE_CHANG...
cn.kuaipan.android.AUTH_FAILED
cn.kuaipan.mishare.ITransportService.UPDATE_ST...
cn.kuaipan.mishare.SHARE_MSG
Updater
Video
ViPER4Android FX
Voice Search
12°
Weather
Weather Provider
Settings

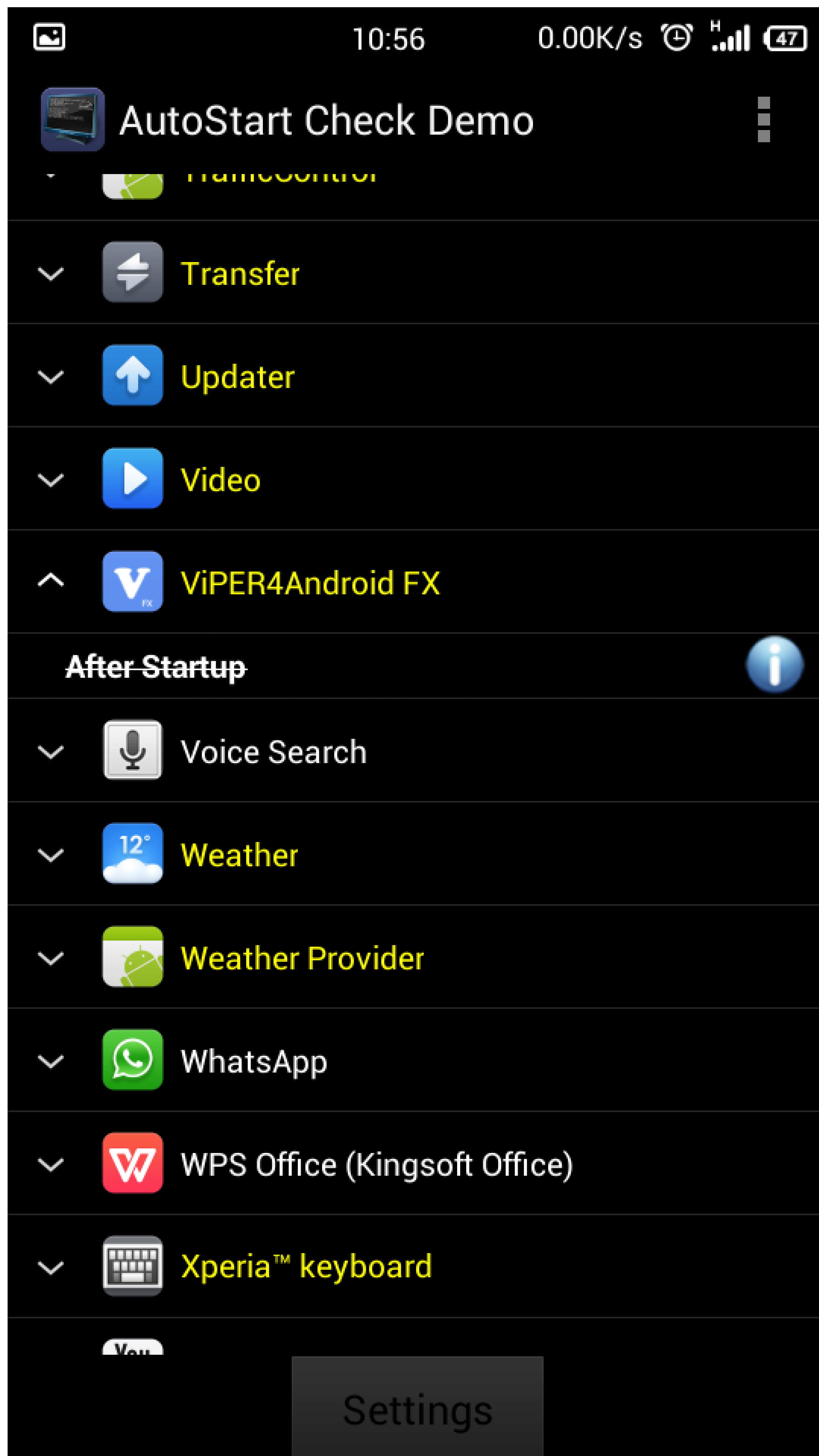
54. Updater


10:55
0.00K/s
47
AutoStart Check Demo
Updater
After Startup
After Startup
Connectivity changed
Connectivity changed
User present
Shutdown
Shutdown
Download notification clicked
android.intent.action.DOWNLOAD_COMPLETE
com.android.updater.action.CHECK_UPDATE
com.xiaomi.mipush.ERROR
com.xiaomi.mipush.RECEIVE_MESSAGE
com.xiaomi.push.PING_TIMER
miui.intent.action.ACTION_DEVICE_PROVISIONED
Video
Settings

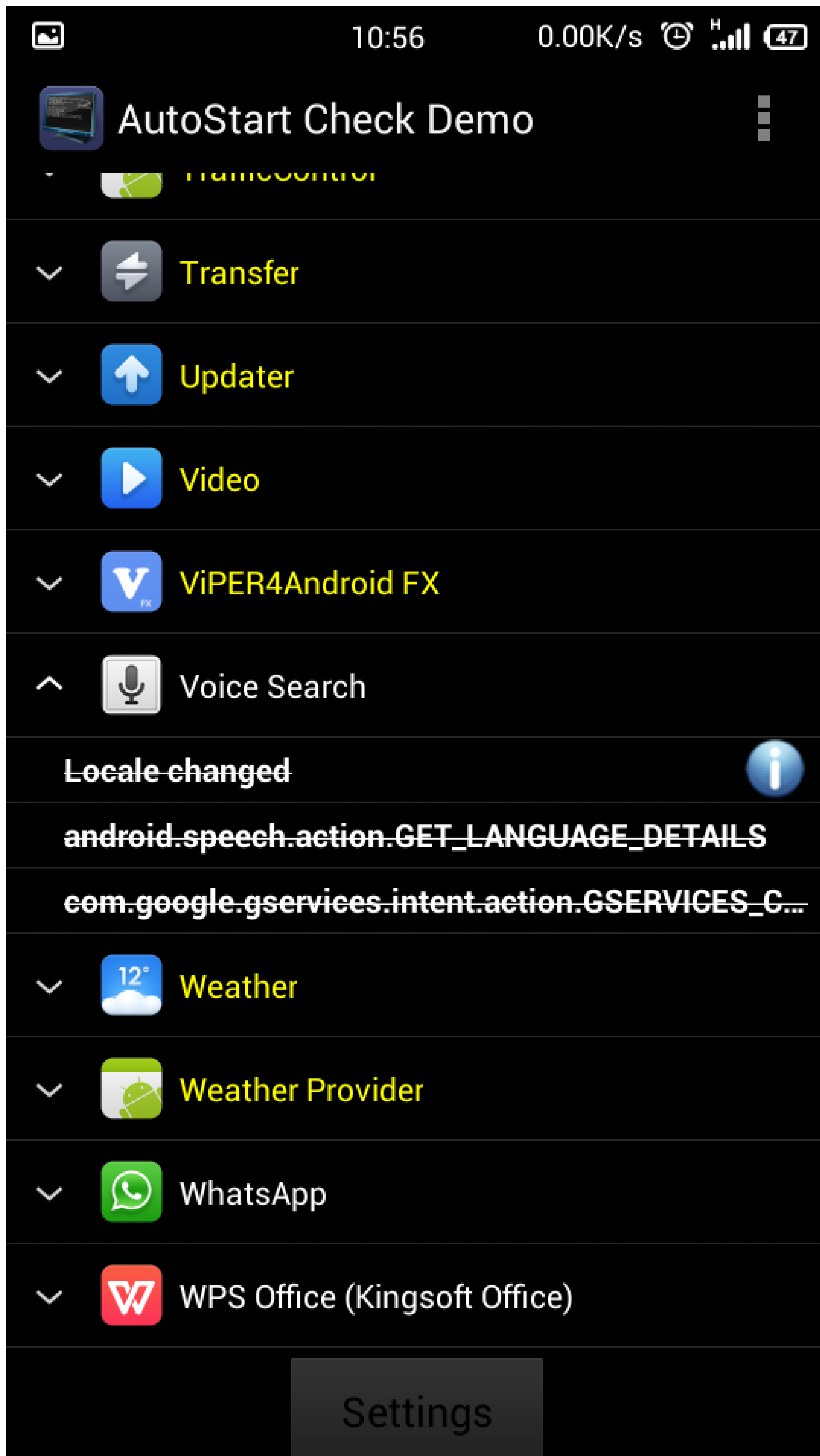
55. Video


10:55
0.00K/s
47
AutoStart Check Demo
Video
Connectivity changed
com.miui.video.liveappointment.cancel_notify
com.miui.video.liveappointment.make_notify
com.xiaomi.mipush.ERROR
com.xiaomi.mipush.RECEIVE_MESSAGE
com.xiaomi.push.PING_TIMER
miui.intent.action.PRIORITY_STORAGE
ViPER4Android FX
Voice Search
Weather
Weather Provider
WhatsApp
WPS Office (Kingsoft Office)
Settings

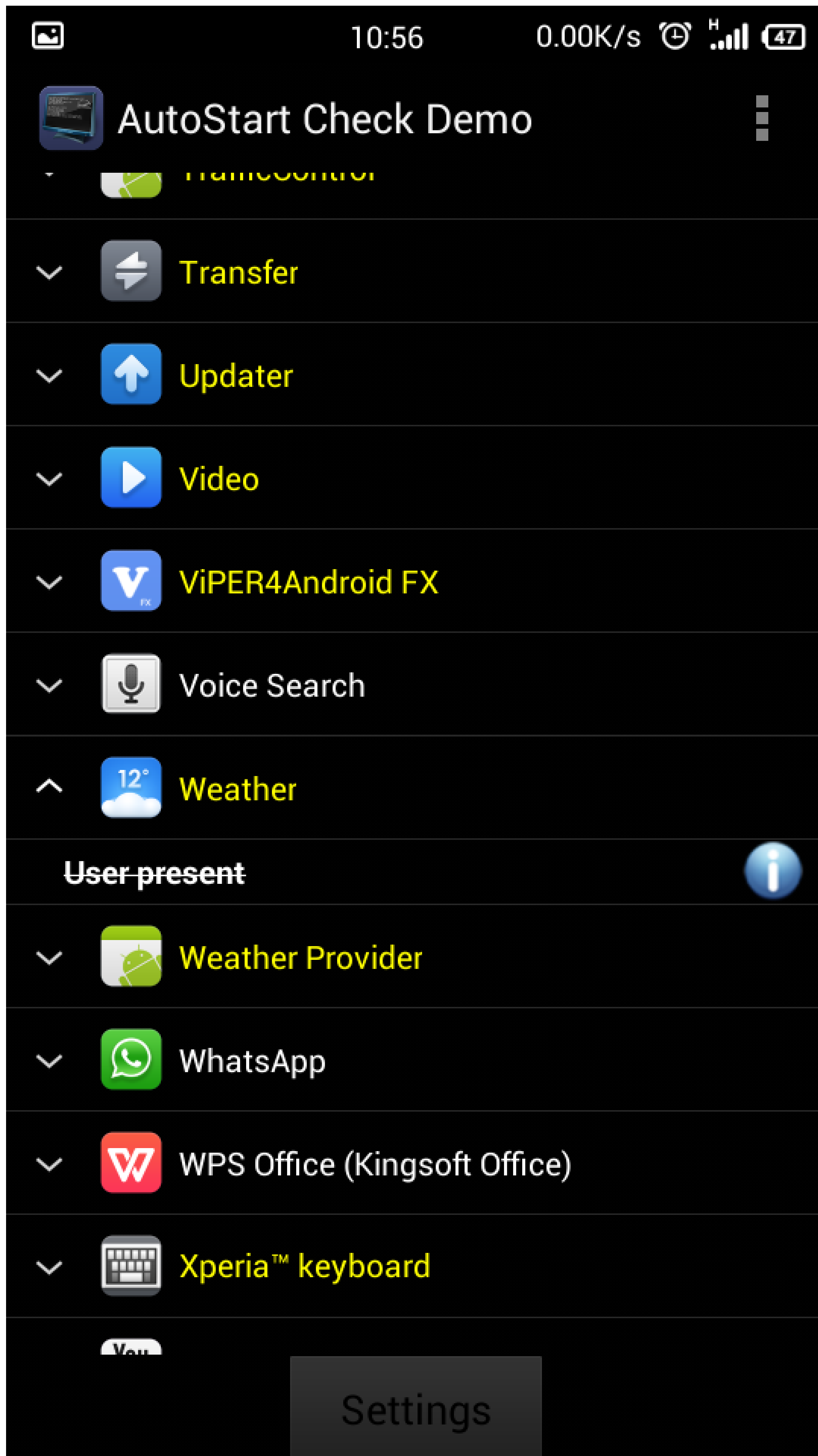
# 56. ViPER4Android FX



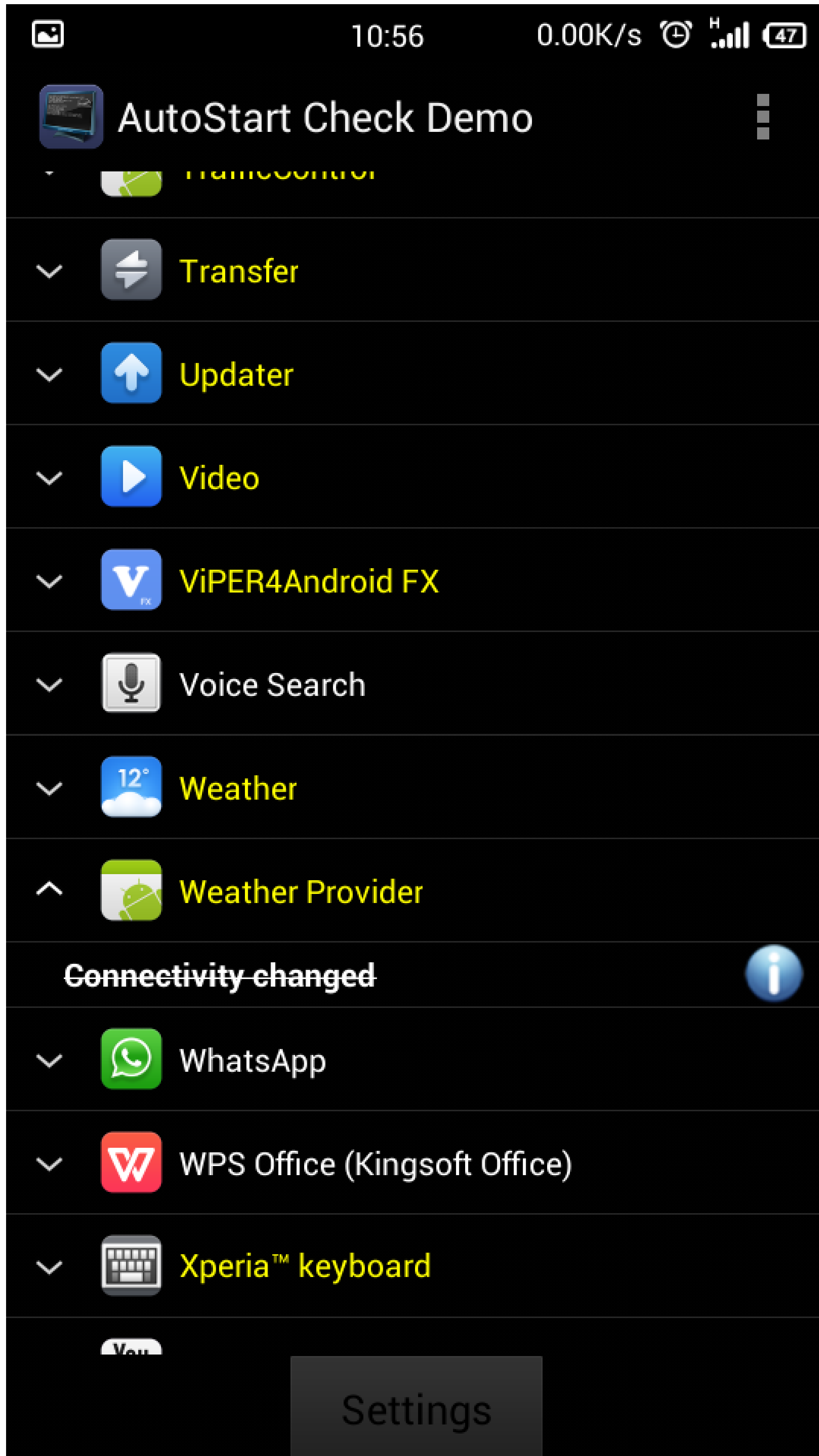
# 57. Voice Search



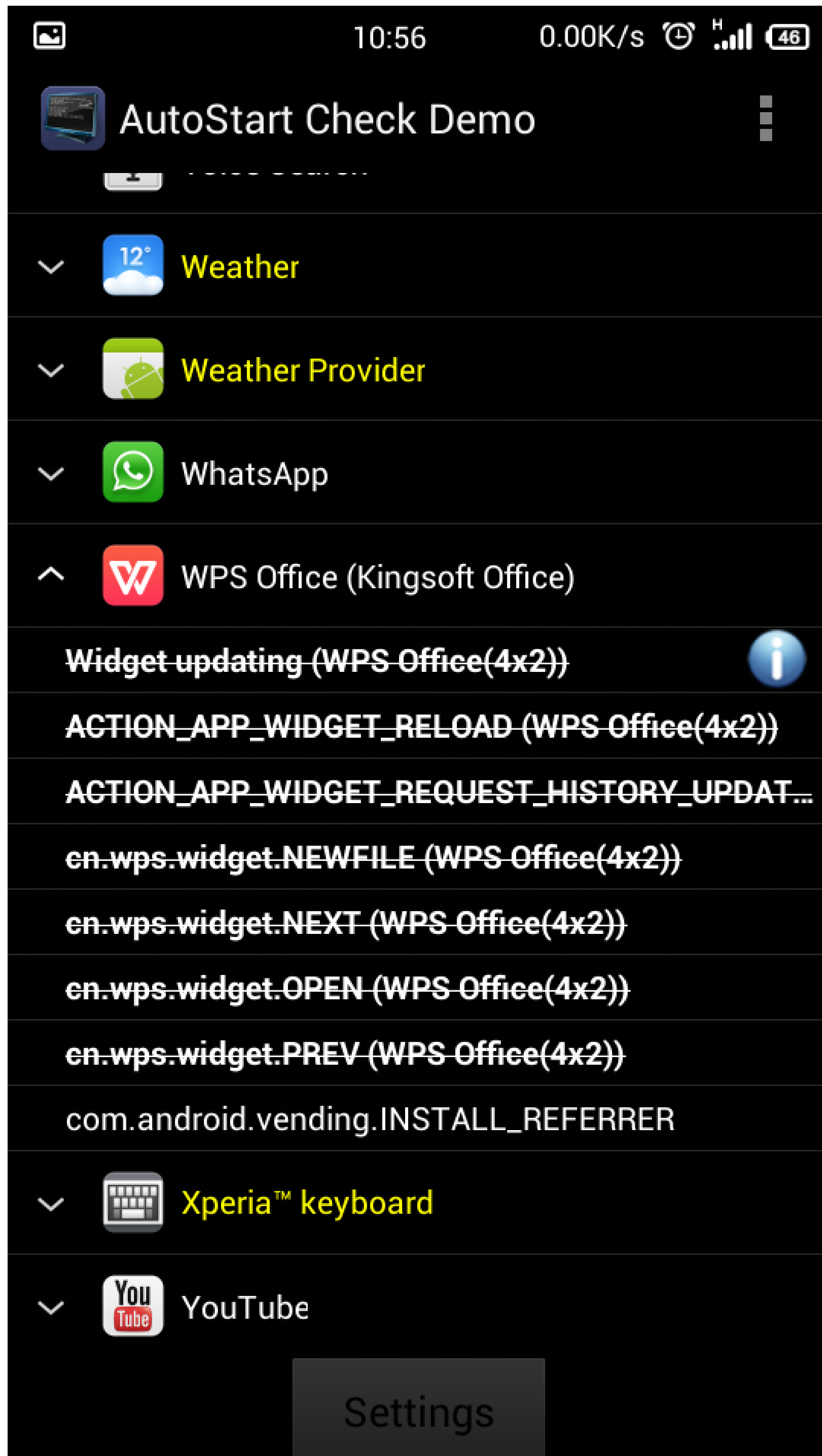
58. Weather


10:56
0.00K/s
47
AutoStart Check Demo
Transfer
Updater
Video
ViPER4Android FX
Voice Search
Weather
User present
Weather Provider
WhatsApp
WPS Office (Kingsoft Office)
Xperia™ keyboard
Settings

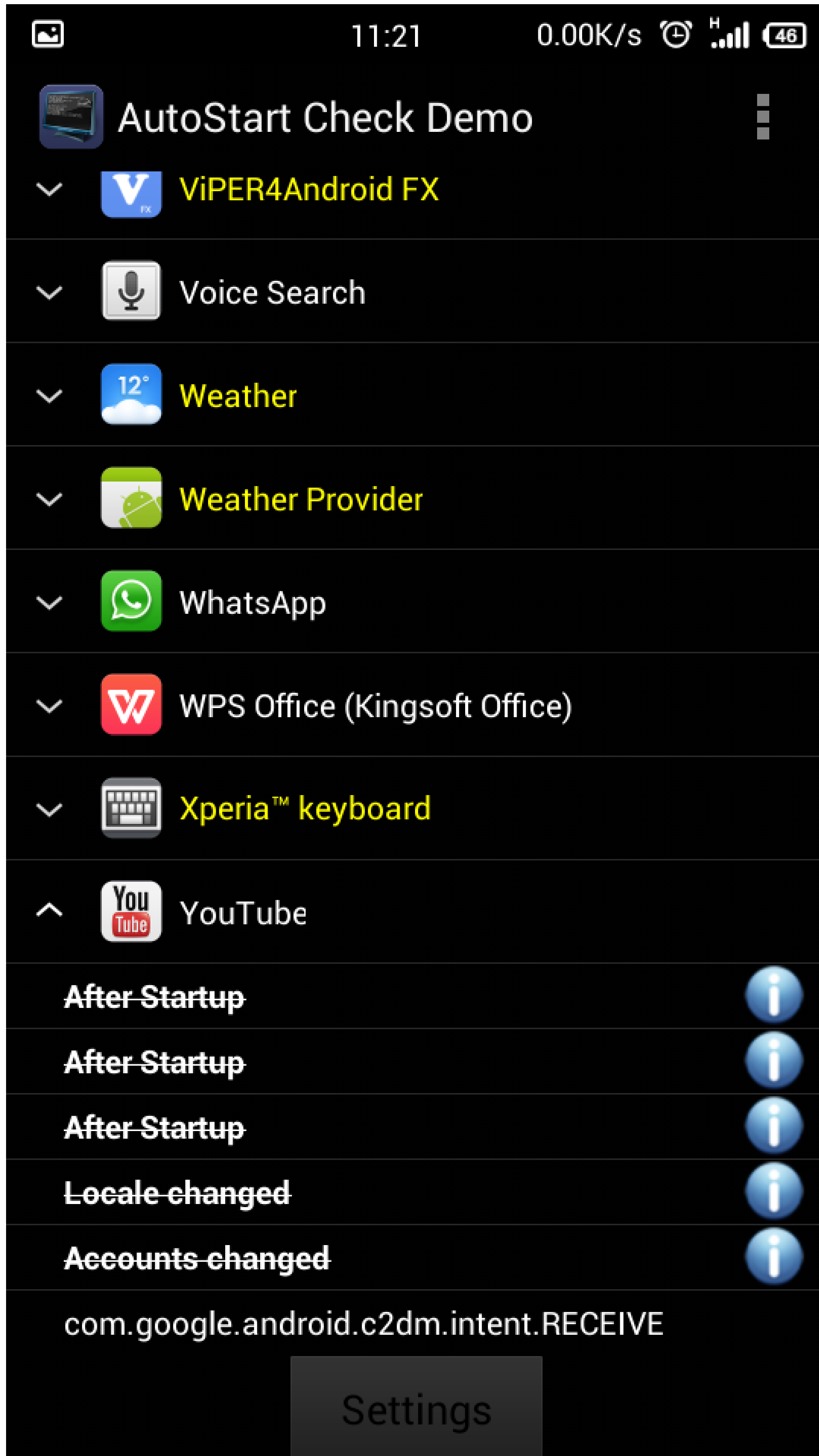
59. Weather Provider



# 60. WPF Office (Kingsoft Office)

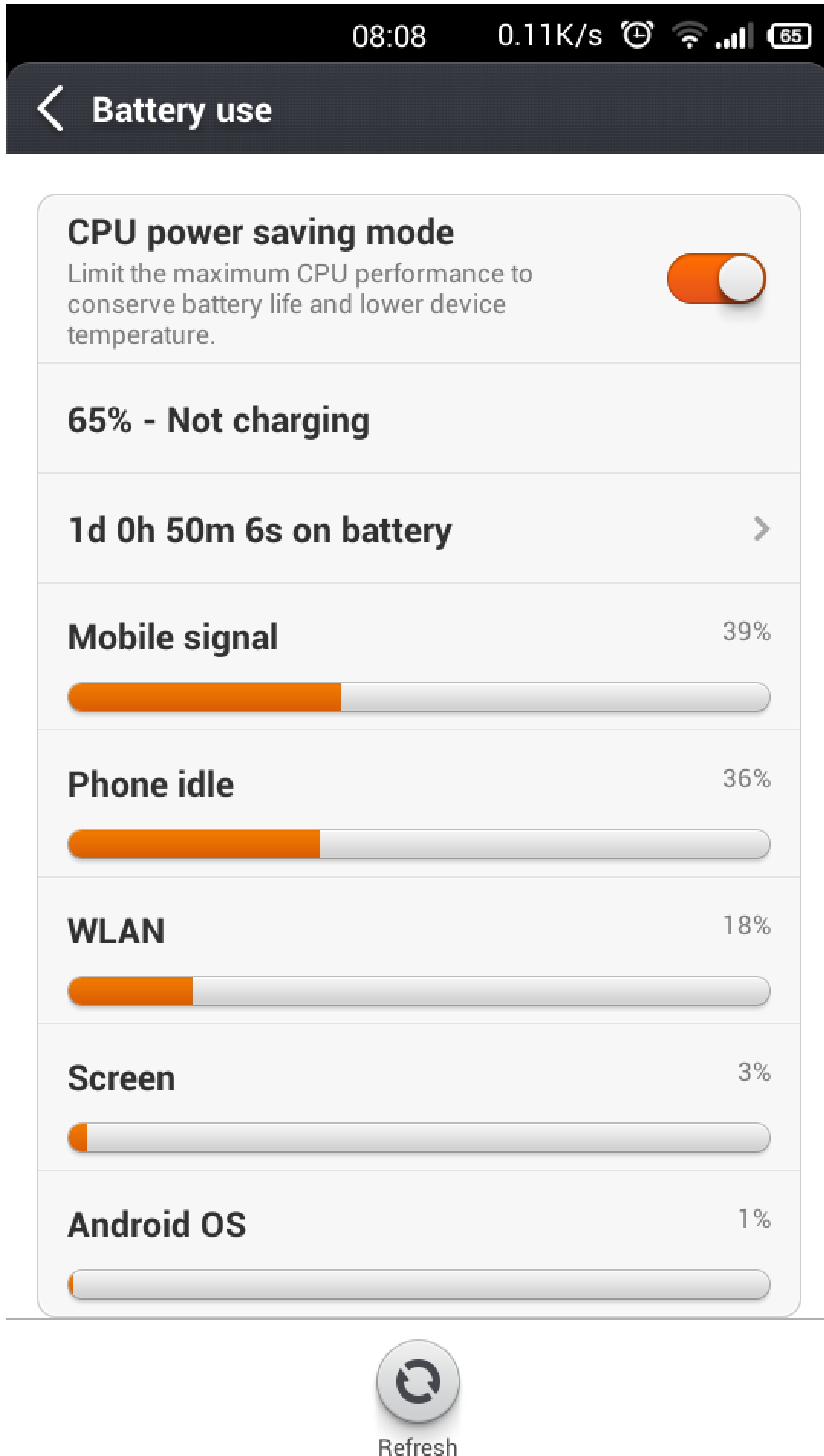


61. YouTube


11:21
0.00K/s
AutoStart Check Demo
ViPER4Android FX
Voice Search
Weather
Weather Provider
WhatsApp
WPS Office (Kingsoft Office)
Xperia™ keyboard
YouTube
After Startup
After Startup
After Startup
Locale changed
Accounts changed
com.google.android.c2dm.intent.RECEIVE
Settings

# PROOF OF CONCEPT

Ini punya ane, supaya agan semangat :)



FIN

METADATA

Dokumen ini diketik dengan LibreOffice Writer 4.3 di mesin bertenaga Ubuntu 14.04. Diperkenankan untuk menyalin, mengubah, mengkonversi, memperbanyak, menyebarkan, mengakui dokumen ini. Terima kasih, semoga menjadi kebaikan.

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Bagi yang memerlukan, seluruh materi dari dokumen ini dapat bebas diunduh di:

- ~~http://goo.gl/Z1HsQf (DropBox)~~ (disabled, too much traffic)
- http://goo.gl/lzIsBO (Google Drive)
- http://goo.gl/0mONcN (Archive)

Tukang ketik dari dokumen ini terkadang membuka e-mail miliknya, kalapacengkir@gmail.com

Tautan rujukan
[1] KBBI, http://kbbi.web.id/optimal
[2] Spek IMO S89, http://www.tabloidpulsa.co.id/phones/imo/3465-s89-miracle
[3] ROM MIUI XOLO, http://en.miui.com/thread-22040-1-1.html
[4] Pengguna MIUI, https://twitter.com/hbarra/status/500526092826836994
[5] Grup IMO S89, https://www.facebook.com/groups/imos89miracle/
[6] Grup Redmi 1S, https://www.facebook.com/groups/official.lounge.xiaomi.redmi1s.id/
[7] Forum IMO S89, http://www.kaskus.co.id/post/51a5ff128127cf6029000006

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